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Conference Brochure



# Programme

## DAY 1 - October 24 Tuesday

9:00 -	Registration				
17:00 -					
8:30 -	Mobile Workshops	MW1 Innovation Quadrant		MW2 Willamette Falls Legacy Project	
12:00 -		MW4 Transportation, Urban Development and Cultural Change in the Jade District		MW3 Columbia River Gorge National Scenic Area	
13:00 -				- All day -	
16:30 -		MW5 Emerging Planners Group Walking Tour			

Session Tracks	TRACK 1: TECHNOLOGY, INFRASTRUCTURE & BUILDINGS	TRACK 2: GOVERNANCE & INCLUSIVE COMMUNITIES	TRACK 3: CULTURE, COMMUNITY EXPERIENCE & SHARING ECONOMY	TRACK 4: RESILIENCE ADAPTATION & DISASTER MITIGATION	TRACK 5: TECHNOLOGY & SMALL COMMUNITIES	TRACK 6: POST-SMART COMMUNITIES & THE NEW FRONTIERS
	D139 / D140	E141 / E142	E143 / E144	E145	E146	E147 / E148

## DAY 2 - October 25 Wednesday

7:30	Registration					
9:00	Opening Plenary: Welcome by APA and ISOCARP Presidents: Cynthia Bowen and Ric Stephens / Welcome by the City of Portland / Keynote: Daniel Iacofano / Introduction to the Tracks: Hongyang Wang and Conference Team --- Portland Ballroom					
10:30	Exhibitors & Poster Break --- F Meeting Rooms					
11:00	Information & Communication Technology & Data Systems	The Portland Plan: Measuring Progress Towards Equity	Making Good Great: Transforming 20th Century Industrial District into a Next Generation Employment	Mitigation & Adaptation on Climate Change - Strategic Planning for Climate Change	Improving Multi-Agency Program Transparency and Accountability via a Scalable Web Platform for Performance Measure Tracking	"Made in China"
12:30	Lunch - ISOCARP Awards --- Portland Ballroom					
14:00	Beyond the black box: Communicating data and evidence to the public	Defining Inclusive Smart Communities	Smart Mobility, Digital Transformation, & Energy Efficiency / Smart culture, regenerative planning and sustainable economy	Hydrological Vulnerabilities	Smart Communities	Cities Leading Through Energy Analysis & Planning
15:30	Exhibitors & Poster Break --- F Meeting Rooms					
16:00	Sustainable Buildings & Urban Space	The International Guidelines on Urban & Territorial Planning	Smart City Placemaking in Kashiwa-no-ha, Japan		Technology & Society / Technology & Big Data	10 Years of ISOCARP Awards: presentation of winning projects
17:30	Reception --- Portland Ballroom Foyer					
19:00	Pub Crawl & Trivia					

## DAY 3 - October 26 Thursday

7:30	Registration					
9:00	Plenary: Keynote: Arun Jain / ISOCARP Projects			--- Portland Ballroom		
10:30	Poster Presentations			--- F Meeting Rooms		
11:00	The Unpaved Road to Housing Affordability: What Role Does Technology Play?	Inclusiveness, Indigenous People, Informal Settlement & Traditional Planning	Smart Communities, Smart Technology, & New Planning Tools	Natural Disaster Mitigation / Resilience Theory, Problems & Practices	Sustainable Development Goals	Planning & Governance / Technology & Big Data
12:30	Lunch - Presentations by Doppelmayr (sponsor) and Results by Young Planning Professionals			--- Portland Ballroom		
14:00	Autonomous Vehicles: What the Revolution Means for You	Governance & Citizen Participation	Story of Place: A Framework for Regenerative Planning	Central City Scenic Resources Protection Plan	Online Interactive Mapping: Tips & Tools for Small Communities	People & Society / Future Urban Economics
15:30	Exhibitors & Poster Presentations			--- F Meeting Rooms		
16:00	Smart Infrastructure & Transport	Smart City Governance Co-Creating Inclusive Places	Shared Economies, Social Integration, & Engagement	Sustainable and Resilient Communities	Neighboords, parks, and food access - Creative approaches to community outreach in Salem, OR	Community Engagement & the Portland Green Loop
17:30	ISOCARP Members Program - Bureau Meeting / Annual General Meeting					
19:00	Dinner and Awards Ceremony			--- Portland Ballroom		

## DAY 4 - October 27 Friday

7:30	Registration					
9:00	Final Day Opening Plenary: Keynote: Congressman Earl Blumenauer				--- Portland Ballroom	
10:30	Break with Exhibitors & Poster Presentations (Poster Session 5)				--- F Meeting Rooms	
11:00	Washington County Transportation Futures Study	Neighborhood Cohesion	Urban Planning Advisory Teams: practices from Wuhan and Bodø	Strengthening the Disaster Resilience of the Academic Biomedical Research Community: Protecting the Nation's Investment	Lighting up the Discovery Corridor – the Port of Ridgefield's Dark Fiber Optics Infrastructure	TRACK 2 continued: Governance and Inclusive Communities
12:30	Final Day Lunch - OAPA Awards				--- Portland Ballroom	
14:00	Green Smart Buildings & Development	Equitable Growth Policies & Community Partnerships	What Can We Learn from Portland's Urban Economy?	Digital Innovations in Urban Planning and Design from a Global Perspective	TRACK 2 continued: Governance and Inclusive Communities	Urbanism Next: How Autonomous Vehicles, the Sharing Economy, & E-Commerce Will Impact Cities
15:30 - 17:00	Closing Plenary with Track Results and Announcement of 2018 ISOCARP Congress				--- Portland Ballroom	

Session Schedule	Track 1: Technology, infrastructure and buildings	Track 2: Governance and inclusive communities	Track 3: Culture, community experience and the sharing economy	Track 4: Resilience, adaptation and disaster mitigation	Track 5: Technology and small communities	Track 6: Post-smart communities and the new frontiers
	D139 / D140	E141 / E142	E143 / E144	E145	E146	E147 / E148
Session 1 25/10/2017 Wednesday 11:00-12:30	Information & communication technology & data systems	The Portland Plan: Measuring progress towards equity	Making Good Great: Transforming 20th century industrial district into a next generation employment center	Mitigation and adaptation on climate change - Strategic planning for climate change	Improving multi-agency program transparency and accountability via a scalable web platform for performance measure tracking	"Made in China"
	Vloebergh, Belgium	Session Proposal Moderator: Engstrom Speakers: Baugh; Branam; Valderrama	Session Proposal Moderator: Koski Speakers: Dupey; Craigie	YU T (Yuan), China	Session Proposal Moderator: Deniston Speakers: Burns; McNamara; Jensen	Moderator: Dubbeling, Netherlands
	YI Liu, China			Ogunfowora, Nigeria		
	Smolnicki, Poland			Niel, Netherlands		
	Dobruna, Kosovo			Agrawal, India		
Singh, India						
Session 2 25/10/2017 Wednesday 14:00-15:30	Beyond the Black Box: Communicating data and evidence to the public	Defining inclusive smart communities	Smart mobility, digital transformation and energy efficiency	Hydrological vulnerabilities	Smart communities	Cities leading through energy analysis & planning
	Session Proposal Moderator: Mangle Speakers: Rodgers; Sellinger	Piracha, Australia	Ceylan, Turkey	Doyle, Switzerland	XIONG Guoping, China	Session Proposal Moderator: Roberts Speakers: Roberts; Martin
		Arpan, India	Reiss-Schmitt, Germany	Feng Mao, China	Kelmendi, Kosovo	
		Li M, China	Zhu X, China	Zhang Tao, China	Ledwon, Qatar	
		Krueger, USA	Smart culture, regenerative planning and sustainable economy Zhao Ning, China Susaki, Japan	Garcia, Portugal	Zhao, Y. China	
		Quintana, Philippines			Jain, India	
Session 3 25/10/2017 Wednesday 16:00-17:30	Sustainable buildings and urban space	The International Guidelines on urban & territorial planning	Smart City placemaking in Kashiwa-no-ha, Japan		Technology and society	10 Years of ISOCARP Awards Seminar
	Prigara, Poland	Session Proposal UN-Habitat Moderator: Oyuela	Session Proposal Moderator: Kelley Speakers: Jarvis; Yamazaki		Jimoh, Nigeria	Moderator: Dubbeling
	Omoti, Kenya				Hussain,Qatar	
	Njue, Kenya				Technology and big data	
	Li Lei, China				Melchiorri, Italy	
	YI Feng, China				Tong Xin, China	
	Vettorato, Italy				Currier,USA	
Session 4 26/10/2017 Thursday 11:00-12:30	The unpaved road to housing affordability: What role does technology play?	Inclusiveness, indigenous people, informal settlement and traditional planning	Smart communities, smart technology and new planning tools	Natural disaster mitigation	Sustainable Development Goals (APA International)	Planning and governance
	Session proposal Moderator: Parker Speakers: Meltzer; Lewis; Brown; Martin; Dinatale; Stuckmayer	Yellapragada, USA/India	Gunay, Turkey	Rizzi, Italy	Moderator: van Epp Speakers: van Epp; Narang Suri; Scruggs; Potts	SKL International, Sweden
		Qiao, China	Dhingra, India	Kaufman/Ozawa, USA		Dixelius; Ohlsson
		Njeke, South Africa	Ledwon (Hanzl), Poland	Rowan, USA		Technology and big data
		Mabbott, USA	Bisello, Italy Akgul, Turkey	Resilience theory, problems and practices Ma (Wang), China		Kamrowska, Poland
Session 5 26/10/2017 Thursday 14:00-15:30	Autonomous vehicles: What the revolution means for you	Governance and citizen participation	Story of Place: A framework for regenerative planning	Central City scenic resources protection plan	Online interactive mapping: Tips & tools for small communities	People and society
	Session proposal Moderator: Weber Speakers: Guenin; Hurley; Hosea	Jacobus, South Africa	Session Proposal Moderator: Murphy Speakers: Murphy; Lucchesi	Session Proposal Moderator: Brooks Speakers: Brooks; Loehlein	Session Proposal Moderator: Hewitt Speakers: Stockton; Schmoltdt; Hughart; Schneider	Alraouf, Qatar
		Musyoka, Kenya				Goldie, UAE
		Engelke, Germany				Future urban economics
						Ledwon, Qatar
Masinga, South Africa				Biddle, USA		
Session 6 26/10/2017 Thursday 16:00-17:30	Smart infrastructure and transport	Smart City governance co-creating inclusive places	Shared economies, social integration and engagement	Sustainable and resilient communities	Neighborhoods, parks, and food access- Creative approaches to community outreach in Salem, OR	Community engagement & the Portland Green Loop
	Zheng Dong, China	Session Proposal Moderator: Ludlow, UK Speakers: Jungjoon; Martin; Bylund; Ulrich	Halim, Indonesia	Kalmakoff, Kenya	Session Proposal Moderator: Anderson-Ogilvie Speakers: Kim; Whitler; Gorski	Session Proposal Moderator: Raggett Speakers: Ginenthal; Midthun; Lillard
	Ubeda, Netherlands		Shi (Geng), China	Chen/Chang, Taiwan		
	Scheerbarth, Germany		Li Xiang (Wei), China	Yang Deng, China		
	Picha (Carlton), USA		Tzou, China	Singh, India		
	Chen Bowen, China		Liu Ch, China			
Zhu, China	Kumar, India					
Session 7 27/10/2017 Friday 11:00-12:30	Washington County transportation futures study	Neighbourhood cohesion	Urban Planning Advisory Teams ISOCARP: practices from Wuhan and Bodø	Strengthening the Disaster Resilience of the Academic Biomedical Research Community: Protecting the Nation's Investment	Lighting up the discovery corridor – the port of Ridgefield's dark fiber optics infrastructure	Track 2 continued: Governance and Inclusive Communities
	Session proposal Moderator: Deffebach Speakers: Moore; Wardell; Valentine: Lawson	Mohamed, India	Moderators: Dubbeling; Ivkovic	Session Proposal Moderator: Pawlowski Speakers: Brown; Leduc	Session Proposal Moderator: Keillor Speakers: Holmberg; Bomar; Niten; Uland	Mourad, Egypt
		Bahirat, India				Zhang, China
		Chen Haining, China				Musoga, Kenya
	Capelli, USA				Lu, China	
Session 8 27/10/2017 Friday 14:00-15:30	Green smart buildings and development	Equitable growth policies & community partnerships	What can we learn from Portland's urban economy?	Digital Innovations in Urban Planning and Design from a Global Perspective	Track 2 continued: Governance and Inclusive Communities	Urbanism Next: How autonomous vehicles, the sharing economy, & E-commerce will impact cities
	Xiao (Leng Hong), China	Session Proposal Moderator: Curren Speakers: Tschabold; Duke	Session Proposal Moderator: Zaman, Belgium	UN Habitat - Ericsson Research - Johannesburg Dev Agency - Arcadis  Speakers: Westerberg; Smolders; Formo; Sithole	Kaur, India	Session Proposal Moderator: Steckler Speakers: Larco; Clark; Hurley; Dick
	Sohail, Germany				Chen, X, China	
	Sen, India				Alwaka, Kenya	
	Davis, USA				Vaillant, France	



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Certification Maintenance

Members of the American Institute of Certified Planners (AICP) are required to engage in continuing education to maintain certification. AICP members must earn a total of 32 Certification Maintenance (CM) credits every two years. Reporting periods for new AICP members begin the January after they become AICP members. A minimum of 1.5 credits must be on the topic of ethics, and another 1.5 credits must be on the topic of current planning law. AICP members may carry over a maximum of 16 credits from one reporting period into the subsequent reporting period; however, ethics and planning law credits cannot be carried over to the next two-year reporting period.

How can I earn CM credits?

Thousands of continuing education opportunities are available on the web and at meetings around the country. The APA (www.planning.com), Oregon APA (www.oregonapa.org), and Washington APA (www.washington-apa.org) have extensive information on activities that qualify for CM credit. This conference qualifies for up to 14 credit hours. CM credit hours approved are noted next to each session description.

How can I log CM credits?

Every AICP member has a personal online CM log. Use your APA ID and password to log in at www.planning.org, search for CM activities, rate them, and submit them to your CM log. All workshops and sessions identified herein, where CM is shown, are approved for credit. Select the activity, then enter the credits for the sessions or workshops attended. If you have questions about how to do this, email APA at aicpcm@planning.org.

Other questions?

To find out more about Certification Maintenance, check out APA's frequently asked questions page: www.planning.org/cm/faq.htm, or send them an email at aicpcm@planning.org. APA is committed to making the Certification Maintenance program work for you and responding to your comments and feedback.

OAPA

- Jeannine Rustad, OAPA Chapter President
- Alex Dupey, OAPA Conference Committee Chair
- Matt Hastie (Mobile Tours)
- Alex Joyce (Mobile Tours)
- Brian Campbell (Sponsorships)
- David Krogh (Sponsorships)
- Karl Lisle (Sponsorships)
- Tamra Mabbott, Sponsorships
- Dave Siegel (Sponsorships)

ISOCARP

- Ric Stephens, ISOCARP President
- Slawek Ledwon, Vice President Congresses & Events
- Didier Vancutsem, Secretary General (Sponsorships & Partners)
- Piotr Lorens, Vice President Young Planning Professionals (YPP Programme)
- Lorraine Gonzales, ISOCARP Ambassador (YPP Programme)
- Gaby Kurth, Programme Manager
- Hongyang Wang, General Rapporteur
- Daniel Radai (Conference Brochure)



American Planning Association - Oregon Chapter

ISOCARP - International Society of City and Regional Planners

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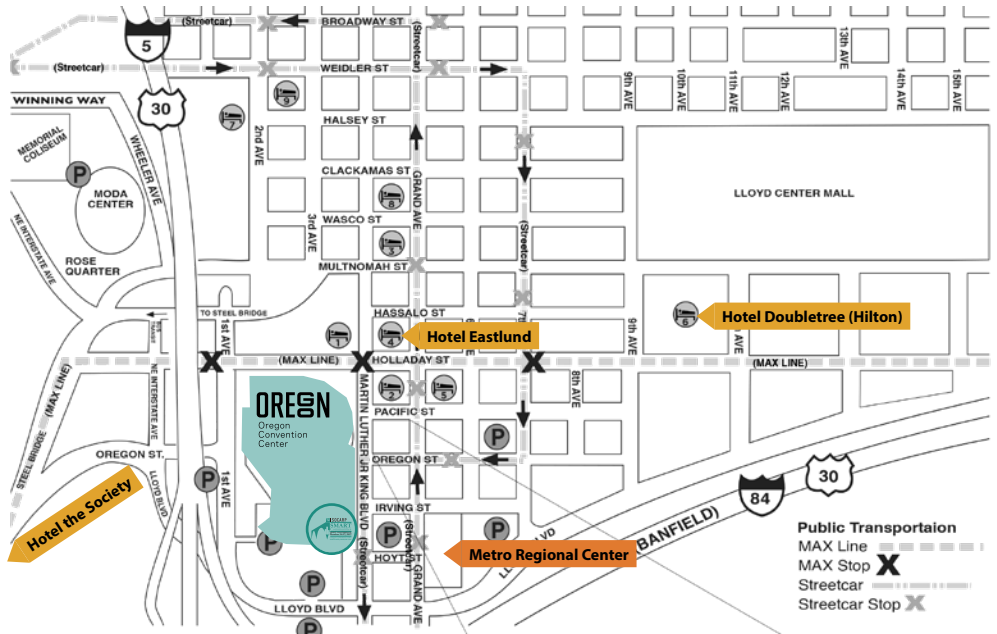
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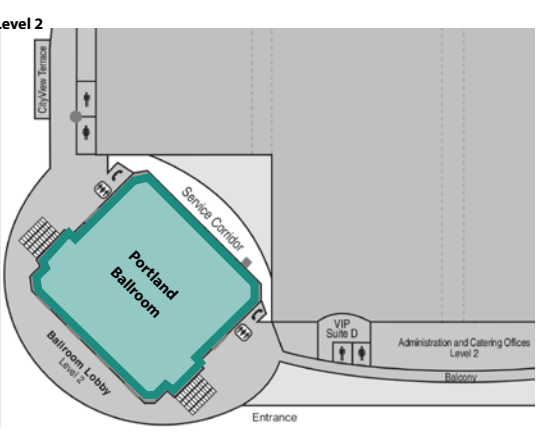
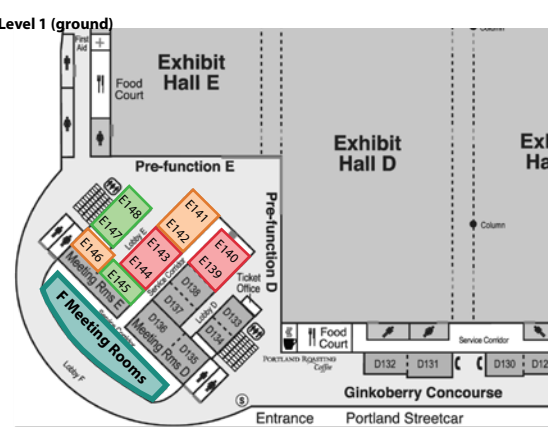
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Venues



- Plenary and Lunch – Portland Ballroom
- Track 1 – D139 / D140
- Track 2 – E141 / E142
- Track 3 – E143 / E144
- Track 4 – E145
- Track 5 – E146
- Track 6 – E147 / E148
- Reception – Portland Ballroom Foyer
- Dinner – Portland Ballroom
- Breaks/Exhibitors – F Meeting Rooms







The Oregon Chapter of the American Planning Association is excited to host the joint OAPA/ISOCARP Conference in Portland in October. While Oregon is

known as a leader in land use planning in the United States, our planners are always eager to learn from others to see how we can improve on making great places to live. What a better venue to learn than an international conference, sharing ideas from a global perspective.

We hope that you will take extra time to explore not only Portland, with its mix of neighborhoods, good food, but also the surrounding outer cities and natural areas. Our urban growth boundaries (lines drawn where urban development may occur, protecting farm and forest land from the pressures of development) makes for easy access to the Columbia River Gorge, Mount Hood and the fruit orchards of the Hood River Valley or the spectacular Oregon Coast. In the diversity of Oregon's landscape – from the lush Willamette Valley, the urban populations, to rural areas of farm, forest and desert – you'll be sure to find similarities to the places you call home.

We hope you'll join us and discover not only the wonders of Oregon, but the warm and welcoming nature of the Portland Metropolitan Region. We look forward to the exchange of ideas on how we create and maintain the Sustainable Communities.

**Jeannine Rustad**  
**OAPA Chapter President**



This year's topic "Smart Communities" represents the convergence of technology and planning. Our 53rd World Planning Congress will

examine and generate approaches to adopting information and communications technology, intelligent transportation, autonomous vehicles, ubiquitous sensing, e-government, renewable energy, the Internet of Things and the myriad of topics connected with 'smart cities.'

Urban and regional planners, environmental designers, entrepreneurs, technology firms, civil servants, students and many others will participate in this collaborative event that provides a unique forum for innovative international concepts and practices. The Portland, Oregon location in the Pacific Northwest is a unique setting, and our hosts are planning numerous activities that will be both meaningful and memorable. I invite you to be part of this extraordinary gathering and also to join ISOCARP, a global association of professional planners from more than 80 countries.

With much appreciation for your interest and commitment to "Knowledge for Better Cities."

**Ric Stephens**  
**ISOCARP President**



Welcome to the joint OAPA/ISOCARP Conference in Portland, Oregon, USA! We're looking forward to having you with us at perhaps one of the

most beautiful times of the year in the Pacific Northwest. I think you'll find a welcoming community, great neighborhoods and districts to explore, and of course, forward thinking urban planning that pushes the envelope in both sustainability and livable communities. Plus, we've been told that we have the highest number of breweries per capita in the world, so there's a little something for everyone! We also have some of the best food anywhere to go along with that pint.

This year's theme of Sustainable Communities is a timely theme, both in the United States and abroad. Change is rapid and political, societal and technical challenges continue to push us as professionals in helping create cohesive and economically competitive communities. And the issue is international. While small communities are challenged in different ways than mega regions, the goal of a thriving community that supports everyone with the least environmental impact is universal. We look forward to this conversation and dialogue, and hope that what you see here in Portland and surrounding communities is interesting. We're looking forward to hearing what you're doing in each of your communities—to share ideas and experiences—because it is truly an international and critical topic for how we live on this connected planet.

Looking forward to seeing you in October.

**Alex Dupey**  
**OAPA Conference Committee Chair**



In 2015 ISOCARP was concluding the celebrations of the 50th Anniversary during the international congress in The Netherlands, Belgium

and Germany. One year later we visited South Africa and now we are proud to collaborate with the Oregon Chapter of American Planning Association to hold a Joint Conference in Portland, Oregon, USA. For ISOCARP this will be the 53rd Annual Congress, but at the same time the first joint event with another organisation. It will be an exciting opportunity to explore a different approach and collaborate closely with the members of OAPA.

I am sure there is a lot to learn for international delegates about American planning as well as for our colleagues in the United States of America to have the perspective of experiences from other continents.

We encourage national and international delegates to attend and benefit from this excellent mix of approaches. So far ISOCARP events were mainly basing on individual submissions from authors presenting papers, while OAPA has welcomed complete session proposals. This year we will combine both and also add interventions about case studies. Having all at one event will be an amazing opportunity to have a new level of international conference!

I sincerely hope that everyone will find there not only the cutting edge knowledge, but also benefit from the collaboration between organisations and learn more about the Portland region.

See you in Portland, Oregon.

**Slawomir (Slawek) Ledwon**  
**ISOCARP Vice-President**  
**Congresses and Events**

# Welcome



# Team Members

## General Rapporteur

**Hongyang Wang, China**

## ISOCARP Congress Team

**Zaheer Allam, Mauritius**

**Xiaohui Chen, China**

**Hidehiko Kanegae, Japan**

**Olusola Olufemi, Canada**

**Mairura Omwenga, Kenya**

**Philippe Vaillant, France**

## OAPA Programme Committee (USA)

**Serah Breakstone**

**Megan Channell**

**Amanda Ferguson**

**David Krogh**

**Jon Pheanis**

**Aaron Ray**

**Damian Syrnyk**

**Shivon Van Allen**

## OAPA Emerging Planners' Group

**Kaitlin Berger**

**Drew DeVitis**

**Grace Stainback**

**Kirsten Tilleman**



### Hongyang Wang, China, General Rapporteur

is a professor of urban planning and design at Nanjing University, China. He researches and teaches planning philosophy and methodology, comprehensive planning and Chinese urbanization. He has been chair for preparing more than 40 regional, strategic and master plans for regions/provinces and cities across China, many of which were awarded provincial, national and international planning prizes including 2012 ISOCARP Awards for Excellence. He was the Chinese chair for European FP7 project Europe-China Urban and Regional Bi-continental research Scheme (FP7-230824 ECURBS) and a member of UN-Habitat Ad-Hoc Expert Group for International Guidelines on Urban and Territorial Planning. He is enthusiastic in synergizing often segregated parts of spaces and societies into holistic solutions towards smart communities.



### Zaheer Allam, Mauritius

is a thinker in Architecture & Urbanism and was the co-founder of an NGO that advocates for renewable energy in Mauritius. Former UN Steering committee member, and UN speaker on sustainable energy (2014), Zaheer featured as a speaker for 350.org, where he delivered a keynote speech during the historic People's Climate March in 2014, regrouping 600,000 people worldwide. TEDx speaker on sustainable building and international correspondent for STUDIO magazine, Zaheer shares ideas for a sustainable world.

In early 2015, he was appointed as the African representative of the International Society of Biourbanism, and Chapter Chair of the International Network for Traditional Building, Architecture and Urbanism, a society patroned by HRH Prince Charles.

For his contributions to society he was awarded numerous awards namely the; Ten Outstanding Young Persons of the World (JCI -2014), 40 Under 40 (ULI -2016), Global Impact Award (Curtin University -2016), and for his contributions to the fields of Architecture and Urbanism, he was elevated to the rank of Officer of the Order of the Star and Key of the Indian Ocean, the highest distinct order of merit in Mauritius.

In early 2017, Zaheer was elected as a Fellow of the Royal Society of Arts, a 260 year old society patroned by HM Queen Elizabeth II, and featured as a 'New Leader for Tomorrow' by the Crans Montana Forum, a programme under the patronage of HM the King of Morocco.



### Kaitlin Berger, USA

Kaitlin works as a land use planner in Portland, Oregon. She holds a Masters of Urban and Regional Planning Student from Portland State University, where she specialized in Economic Development, and focused her research on regional housing trends and affordable housing development. Kaitlin is passionate about a wide variety of planning topics including: equitable and sustainable economic development, public policy, poverty alleviation, affordable housing, community capacity building, multi-stakeholder collaborative decision making processes, sustainable agriculture, and brownfield remediation and redevelopment.



### Serah Breakstone, USA

Serah Breakstone is a planning consultant in Portland, Oregon where she provides a range of land use planning services to clients in both the public and private sectors. She has a comprehensive understanding of Oregon land use regulations and guides her clients through complex land use processes and represents their interests during public proceedings. Serah also helps Oregon cities and counties implement their long-range land use visions through comprehensive planning, concept planning and zoning codes. Currently, Serah is a Senior Planner with DOWL, a multi-disciplinary firm in Portland with a focus on planning, land development and environmental services.



### Megan Channell, USA

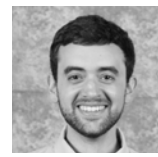
Megan Channell, AICP is a Principal Planner with the Oregon Department of Transportation, where she manages complex projects of statewide significance through planning, federal environmental review, and preliminary design for project-ready hand-over and implementation. Megan has 10-years of transportation and environmental planning experience in both the public and private sector, with a specialty in multimodal transportation corridors. She has proven success in applying corridor-wide visions across multiple jurisdictions and managing multi-agency coordination efforts. She also has technical and project management experience in applying strategic planning techniques for a wide variety of CEQA and NEPA documents for transportation and transit-oriented development projects.



### Xiaohui Chen, China

Xiaohui Chen is the head of the urbanisation research center of Jiangsu province, China and Secretary-General for the Urban Planning Society of Jiangsu Province as well. She has urban and regional planning experiences for 23 years, and got the National Youth Planning Science and Technology Award of China in 2013. She is in charge of major urban and regional planning projects and provided technical assistance to local and provincial governments. She has got nine national excellent planning awards. Xiaohui has published three books by China Architecture and Building Press: "The Rural Restructuring in the process of Urban and Rural Integrated Development", "Urban-rural planning reform and innovation in aging times", and "Metropolitan Area Planning", and published 20 academic papers as well.

From 2012 to 2013 she was a member of the Scientific Committee ISOCARP and has international experience by attending SPURS program at MIT, USA for one year. She organized two international workshops between Jiangsu Provincial Construction Ministry, China and Cardiff University, U.K.



### Drew DeVitis, USA

Drew DeVitis is an urban planning professional based in Portland, Oregon. Drew recently oversaw development of the City's Transportation Recovery Plan and helped initiate a resilient infrastructure planning effort while at the Portland Bureau of Emergency Management. He was also a co-author of a Manual on Pedestrian and Bicycle Connections to Transit released this year by the Federal Transit Administration. Drew received a Master's degree in Urban and Regional Planning from Portland State University and holds a Bachelor's in Environmental Studies from the University of Pittsburgh. He hopes his work can help foster more equitable, resilient, connected communities in the era of climate change.



### Amanda Ferguson, USA

Amanda Ferguson is the City Planner for the City of Cottage Grove, Oregon. As the principal planner for a small town, Amanda's position covers all aspects of local land use management in Oregon. She specializes in historic preservation, code administration, flood plain management, and emergency management. She is a Certified Flood Plain Manager and an AICP certified planner, and has trained extensively with FEMA at the Emergency Management Institute. Amanda served on the Board of Directors for the Oregon Chapter of the American Planning Association for two terms, and co-chaired three state and bi-state

APA conferences. Amanda has a Master of Historic Preservation from the University of Georgia, and undergraduate majors in history and theatrical production. She is also the Artistic Director for the Cottage Theatre, a non-profit community theatre in Cottage Grove.



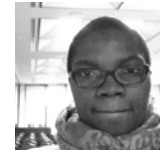
### Hidehiko Kanegae, Japan

Dr. Hidehiko Kanegae, Professor, is a planner, also is a faculty member & ex-dean of the Graduate School of Policy Science as well as an research leader of the Institute of Disaster Mitigation for Urban Cultural Heritage (R-DMUCH) at Ritsumeikan University, Japan. His research focuses on a number of planning scientific topics including; public policy making & planning for the inheritance of historical cities, disaster mitigation measures, urban resilience and, the role of the local government in urban planning and community planning for disaster preparedness using by simulation & gaming. He holds a doctorate degree in Social Engineering from the Tokyo Institute of Technology whose supervisor was Prof. Dr. Yoshinobu Kumata. He was trained as "Young Planner (current: Young Planning Professionals: YPP)" in 1992 at the Cordoba congress and was a member of Local Organizing Committee of the Ogaki Congress 1996.



### David Krogh, USA

David Krogh has over 35 years of both public and private planning experience in city, county, regional and in emergency management planning. He is one of the few planners in the State of Oregon who has working experience with all 19 of Oregon's Statewide Planning Goals, having worked with urban, rural and coastal agencies. David has a BS degree in Earth Science from the University of Wisconsin, an MS degree in Environmental Science from Washington State University, and has completed FEMA's Professional Development Series in Emergency Management (including training at the National Emergency Training Center). After retiring from government work in 2013 he consulted within the Portland Metro area until recently. He joined the American Planning Association (APA) in 1987 and received his certification as a member of the American Institute of Certified Planners (AICP) in 1991. He is currently a life member of APA/AICP and has volunteered with the Oregon Chapter of APA (OAPA) for several years. Presently, he serves on the OAPA Professional Development Committee, is a regular conference volunteer, and a planning mentor. An avid writer, he has had many guest commentaries published in both the Portland Tribune and Oregonian newspapers and specializes in planning problem solving and legal issues.



### Olusola Olufemi, Canada

Dr. Olusola Olufemi is an Associate Professor of Urban and Regional Planning. With her career spanning about 30 years, Olusola Olufemi has been actively involved in university teaching, research, consulting and administration in Geography and Planning departments, at the undergraduate and postgraduate levels, in Nigeria, South Africa and Canada. She has published extensively in peer-reviewed journals and encyclopaedias; and involved in leadership roles in international professional bodies. She was a Visiting Professor at the University of Ibadan, Ibadan, Nigeria in 2013 and 2016. Olusola is a planning researcher, mentor and educator, and also an Associate with the Society for Good Health, Sustainable Development and Environmental Awareness, Ibadan, Nigeria. She presently works as an Independent Consultant in the area of Social Planning specifically Urban Management and Development, Homelessness, Gender and Food security.



### Mairura Omwenga, Kenya

Mairura Omwenga is Chairman of Town and County Planners Association of Kenya (TCPAK). He is a member of the International Society of City and Regional Planners (ISOCARP) and International Associate of the Royal Town Planning Institute (RTPI/UK). He is a member of the Institution of Engineers of Kenya and registered by the Engineers Board of Kenya and also the National Environment Management Authority.

Mairura is a civil/structural engineer, town planner and EIA expert. He holds BSc (civil engineering) and MA (Urban and Regional Planning) from the University of Nairobi. He is currently pursuing PhD research. He is a lecturer at the University of Nairobi, College of Architecture and Engineering. He has working experience in both public and private sectors and also runs a consultant firm.





### Jon Pheanis, USA

Jon Pheanis, AICP, is a planner and project manager with MIG, working with communities across the west and throughout

Oregon. During his career, Jon has contributed on projects with a range of scales, from street and park plans, to neighborhood and comprehensive plans. Jon is especially passionate working with people and bringing their ideas to life, generating enthusiasm and trust throughout each of his projects. His experience includes successful public involvement campaigns and professional meeting facilitation across a wide array of projects and audiences. He has contributed on numerous professional articles and conferences related to great public spaces and public involvement. Jon has been a planner in Oregon for over a decade and has attended the Oregon Chapter of APA (OAPA) annual conference for nearly as long, including as speaker. Jon holds a Masters in Community and Regional Planning from the University of Oregon.



### Aaron Ray, USA

Aaron Ray, AICP, is a Senior Aviation Planner with the Port of Portland. He focuses on long range planning for the Port's three aviation

facilities, with an emphasis on land use compatibility and collaboration with partner jurisdictions. Prior to joining the Port, he was a Senior Planner for the City of Hillsboro, managing a multi-year project to rewrite the City's Comprehensive Plan, its first overhaul in over 30 years. Aaron also serves as a Board Member and the Professional Development Officer for the Oregon Chapter of the American Planning Association. He holds a Bachelor's degree in Community Development from Portland State University, and a Master of City and Regional Planning from California Polytechnic State University, San Luis Obispo.



### Grace Stainback, USA

Grace Stainback is a Land Use Planner in Mackenzie's planning department. Grace received a Master's degree in Urban and

Regional Planning and a Graduate Certificate in Geographic Information Systems at Portland State University this year. She obtained her bachelor's degree at the University of Florida, is a former journalist and, prior to Portland, has lived and worked in the Miami area, Spain, Ecuador and Vietnam. She hopes to combine her curiosity about people, place and culture with her formal education to help create meaningful spaces.



### Damian Syrnyk, USA

Damian Syrnyk currently serves as a senior planner with the City of Bend Growth Management

Department. He has over 28 years of professional experience in both current and long range planning for two cities and one county in Oregon. Damian served as a key member of a team in developing a proposal for an urban growth boundary expansion for the City of Bend that included a significant update of the Bend Comprehensive Plan. The Bend Comprehensive plan and the UGB expansion were acknowledged by the Oregon Department of Land Conservation and Development in November 2016. Damian has also prepared population and housing forecasts, and a water public facility plan for the City of Bend. As a senior planner he has also reviewed and testified on land use and planning bills before the Oregon Legislature, or coordinated with the City's legislative liaison to provide testimony.

Damian has been a member of the American Planning Association (APA), including the Oregon Chapter of APA, since 1988. He earned his certification as a Member of the American Institute of Certified Planners in 1995. He served as an at-large member of the board of Oregon APA from 1999-2003 and from 2009-2012. He served as the Board Vice Present from 2012-2014, during which he also served as a Conference Committee Chair. He currently serves as the Chair of the Oregon APA Legislative and Policy Affairs Committee, a position he has held since 2014, and has served as a committee member since 2010.



### Kirsten Tilleman, USA

Kirsten Tilleman is a planner with WSP USA in Portland, Oregon. Her work focuses on both environmental

planning and transit system safety and security. Specifically, Kirsten executes socioeconomic and environmental justice impact assessments; risk-based transit system safety and security analyses and trainings; land use permitting; and compliance with various applicable federal and state regulations. Kirsten earned her certification as a member of the American Institute of Certified Planners in 2017, and is board president-elect of the American Planning Association's Oregon Chapter (OAPA). She holds degrees from the Bren School of Environmental Science & Management and the Oregon State College of Forestry.



### Philippe Vaillant, France

Philippe Vaillant is an architect-town planner, a territorial engineer in the agglomeration community

«Ardenne Metropole». He currently works for the "City Policy" department. He has presented case studies at numerous ISOCARP congresses. He is one of ISOCARP's representatives at UNESCO.

He has drawn up numerous town planning documents and has been Director of the Technical and Urban Planning Department (DST) of several medium-sized towns. He is a national co-facilitator within the AITF, and the technical director of a "Practical Guide to the DST" used in more than 200 cities in France. He has conducted many exchanges of experience, through seminars and congresses at the local, regional, national and international level.

After leading on the ground the regional operation « After Mines » of the French and German Lorrain Coal Basin, he became Doctor of Geography-Planning, with distinction. He has since been an Associate Researcher at the University of Lorraine, EA 7304, and has conducted a Post-Doctorate in Australia, Kimberley, Western Australia, in partnership with the Indigenous Nyikina People and with the International Water Center (Brisbane). His international research focuses on the theme of "Mining, Environment and Society".

He promotes and implements an organic, trans-disciplinary planning (A.N. Whitehead) toward convivial regions (B.Twittchet) taking into account the limited Earth resources. His attention is focused on an operational and relational way toward solidarity-based, convivial and inclusive communities, rooted in permanently changing territories, as a solution to an increasing pauperization.



### Shivon Van Allen, USA

Shivon Van Allen is a GIS professional for a utility company in Portland, Oregon. She previously

was a planning consultant in the Portland-area and has provided land use planning services for private and public sector clients. Shivon holds a Bachelor's of Science in Environmental Studies and Film from Portland State University and a Master's of Science in Geography for the University of Alabama. Shivon is interested in the roles GIS and technology play in influencing the evolution of urban and rural environments.







# Introduction

by Hongyang Wang, General Rapporteur

The Joint Conference of ISOCARP and the Oregon Chapter of the American Planning Association (OAPA) – 53rd ISOCARP Congress – will be **the world planning congress immediately following HABITAT III**, the vicennial global summit for urbanization and planning. This means, from a classical planning perspective which would put 20 years as the long term for strategic visioning, our congress will be the first action congress to implement the New Urban Agenda and the International Guidelines on Urban and Territorial Planning. For both of the core documents of Habitat III, ISOCARP played a key role as the most representative community of global planners.

The Congress deliberately selected “Smart Communities” as the central theme, **converging the two movements that have fundamentally transformed and will continue dominating the urbanization and planning sphere, the global habitat movement (since Habitat I) and the development of information and communication technologies (ICTs)**. It is the ICT sector that delivered the smart city initiative. But the global habitat movement is essentially tackling smart urbanization and planning issues from a typical planning way. However, none of the divergent journeys has led to satisfactory solutions for smart sustainable planning and urbanization. The ICT tide has been bringing up new infrastructures,

new products and economies, new ways of organization, new spaces, new life styles, new ways of knowledge production and new individuals, new powers, new politics and new societies. Some may consider these as “smart”. But many have realized that all of these can be important supports for but none is automatically “smart”. For more people, “smart” vaguely refers to some kinds of “logic” of the world such as connected, networked and systematical. But for most, after all, it is the value meanings of “smart” that hide deep in their mind, e.g. clever and proper. **In this sense, the habitat movement would have even more relevance to smart city and planning.** Such understanding of “smart” certainly has fundamental legitimacy. But it also opens the door to all apparently desirable values and tools, such as green, equal, inclusive, justice, healthy, efficient, forward-looking, comprehensive, and planning, design, policy, governance, finance, democracy, etc. Eventually, “smart something” is becoming the newest universal language and substantially empty concept in planning: it means everything and hence nothing. Is such a dilemma also applicable to planning in general?

Striving to be a congress of implementation following Habitat III after 40 years of global habitat movement, working in partnership with the Oregon Chapter of the American

Planning Association (OAPA), the 53rd ISOCARP Congress aims to confront the critical challenges or even crises for planning today. The Congress Team enthusiastically invite global planners and trans-disciplinary colleagues to contribute criticisms, debates and out-of-box constructive solutions for the urgent smart planning and smart urbanism agenda. We realize the diversified meaning and aspects of “smart”, from the smart technology, smart infrastructure and smart space, to the smart economy, smart society and above all, smart people. But above all kinds of “smart”, our Congress, the annual party of global planners, seeks to reaffirm **the “smart” identity and scope of planning as the art to create synergetic spatial solutions according to a specific context. That is, beautiful spatial synergy is the core planning sense of “smart” which will articulate, support and create other kinds of “smart”.** Therefore, it is true that planning may have to take into account essentially everything. But planners’ major expertise is our comprehensive synergetic capability of understanding planning contexts, creating planning schemes and managing planning implementations. The planning scheme is to design spaces with the best possible social, economic and environmental effects. And today, all of these have to be synergized with the elements of ICTs:



**Smart understanding of our planning context:** We are in what kind of new planning context, socially, economically, environmentally and spatially because of the influences of new factors such as (not exclusively) ICTs? How are the factors like internet, big-data, AI and e-government etc reshaping our society and economy?

**Smart planning methods:** How to improve our planning methods with the new possibilities of technologies and tools including ICTs, to conduct more scientific and human-oriented data-collection, analysis, scheme creation and verification, and public participation? Is the big-data as powerful as assumed by some?

**Smart planning schemes and smart urban future:** In an era with ICTs and other new developments, what are the innovative synergetic spatial schemes which can help make buildings, infrastructures, spaces, economies, societies, people and nature smarter? How to create harmonious synergies between/among the big and small, historical, modern and postmodern, development, culture and nature, work, life and health, technology and human, people of different ages, genders, abilities and beliefs, and region, city, towns and villages? **With ICTs, what**

**kind of new spaces are our cities, regions and communities evolving towards, and what new utopias can we imagine?** And certainly, with the support of ICTs and modern transportations, scale has been condensed and so should be the distance among people. These help make our new urban world a world of Smart Communities.

**Smart planning implementations:** In today’s society, market and governance system which has been greatly changed due to many reasons including internet, what are the new ways for plan-promotion and implementation?

It is in an ICT era to reaffirm the duty and technologies of planning as the trans-disciplinary, sector and people coordinative spatial solution creator. The congress will explore the above questions from six “horizontal” sectoral tracks:

1. Technology, infrastructure and buildings
2. Governance and inclusive communities
3. Culture, community experience and the sharing economy
4. Resilience, adaptation and disaster mitigation

5. Technology and small communities
6. Post-smart communities and the new frontiers

The congress program will include plenary sessions, concurrent sessions of papers, inclusive debates, seminar on cases or projects, workshops, and social and cultural events which will ensure a series of unforgettable experiences for all participants. It is worth mentioning that we will organize the congress jointly with local planning profession association, OAPA, which will present us with all kinds of ideas and the smart city of Portland. Apart from the regular papers, case studies, projects, practical experiences, and researches relevant to the theme and topics are all welcome.

**We look forward to your contribution to make a smart congress!**





# Mobile Workshops

The first day of the 2017 Congress will offer several mobile Workshops. A short description of their topics can be read below.

24 October

## Innovation Quadrant (City of Portland)

8:30 – 12:00 (25 attendees) \$59

This tour will focus on Portland's new emerging Innovation Quadrant (IQ), which include the South Waterfront and Central Eastside Districts of the Central City. The tour will cover past and recent infrastructure projects, such as the Portland Aerial Tram, South Waterfront Greenway, and Tillikum Crossing, which are helping to support and draw investment in the IQ. The tour will also present three emerging master plan concepts for the IQ: OHSU Schnitzer Campus; Zidell Yard, and; OMSI Master Plan. Staff from the City of Portland will discuss how the city is support the creation of the IQ, and representatives from the three master plan sites will discuss the opportunities and constraints with taking their master plans from concept to reality.

## Transportation, Urban Development and Cultural Change in the Jade District (City of Portland)

13:00 – 16:30 (25 attendees) \$59

This tour will explore contrasting development areas along 82nd Avenue in SE Portland. The area around SE 82ndAve./Division St., known as the Jade District, is a multi-cultural business district. It also is the site of an expanding Portland Community College campus which represents a more urban scale, pedestrian-oriented development, compared to the surrounding auto-oriented strip commercial corridor. Development of a future high capacity transit line (bus rapid transit), transportation safety improvements, and other planning efforts in this corridor have the potential to expand this more urban pattern. We will visit the PCC campus and Jade District to compare and discuss these contrasting development patterns in the context of walkability, transit access, and cultural and neighborhood change. Transportation will be via a combination of walking and transit or passenger vans.

## Willamette Falls Legacy Project (Metro)

8:30 – 12:00 (25 attendees) \$59

Willamette Falls is the second most powerful waterfall in North America and an important Oregon historical and cultural treasure as a cultural, fishing and gathering place for Native American Tribes. Formerly also home to electrical transmission lines and a local paper mill, the site is on the cusp of being transformed into a new pedestrian Riverwalk and future mixed use development. The tour will focus on the design of the Riverwalk, and how the Riverwalk and overall Willamette Falls Legacy Project is leveraging other programs and projects such as bicycle and pedestrian-related Transportation Demand Management programs, downtown improvements, and tourism-related efforts.

## Emerging Planners Group Walking Tour (OAPA Emerging Planners Group)

13:00 – 16:30 pm (25 attendees) \$59

This tour will focus on some of the more recent transportation developments in the City, such as the addition of Tilikum Crossing, the OHSU aerial tram, and Nike's biketown bike share program. It will be led by emerging transportation planning professionals in Portland and offer opportunities to interact with local transportation and technology organizations. An optional, informal happy hour will follow the tour.

## Columbia River Gorge National Scenic Area

Full Day (40 attendees) \$99

This mobile workshop will focus on joint use and regulation in the Columbia Gorge National Scenic Area and will also touch on how people access recreational opportunities in the Gorge, including via a new shuttle service implemented by the Oregon Department of Transportation. The Gorge is a scenic wonder and incredibly popular recreational destination that attracts people from across the state and around the globe. It also functions as a "working river" for competing uses such as freight movement and tribal activities and is home to several local communities.

Oregon Convention Center

# ISOCARP-UNESCO Event

23 October  
9:00

coordinated by Janine Marin, ISOCARP Representative to UNESCO

## "TOWARDS SUSTAINABLE CITIES WE NEED: AN OBLIGED WAY TO SAVE LIFE ON OUR LOVELY PLANET"

A follow up of the 2016 Durban Congress "Cities we Have vs. Cities We Need" around the Sustainable Development Goals in cooperation with the United Nations Educational, Scientific and Cultural Organization. A full day in the framework of ISOCARP and UNESCO Objectives and Priorities until 2030.

Registration

9:00 - 9:30

### Opening Ceremony

"UNESCO soft power today around the Sustainable Development Goals"

with Hawa Deme, Umuganda Africa & Derrick Olsen, President of the World Affairs Council of Oregon

9:30 - 10:10

Room 255

Welcome Coffee

### Interactive Round Table:

"Planning, heritage and modernity, social inclusion for promoting intelligent cities for people"

Nicholas You (Chair), Ric Stephens (Moderator) & Hawa Deme (Special Guest)

10:30 - 12:00

Room 255

Lunch Break

12:00 - 14:00

### Three Parallel Workshops:

1. "Linking rural and urban planning to set up 'urban' cities and a better quality of life"

Michael Hardman (Chair), Mairura Omwenga & Hongyang Wang (Experts)

14:00 - 15:50

Room 255

2. "Best practices rethinking human settlements for all that leave nobody by the wayside"

Pablo Pessoa (Chair), Daniele Vettorato & Martin Dubbeling (Experts)

Room 145

3. "The role of women, youth and civil society in promoting intelligent cities"

Zeynep Gunay (Chair), Estefania Chavez Barragan & Hawa Deme (Experts)

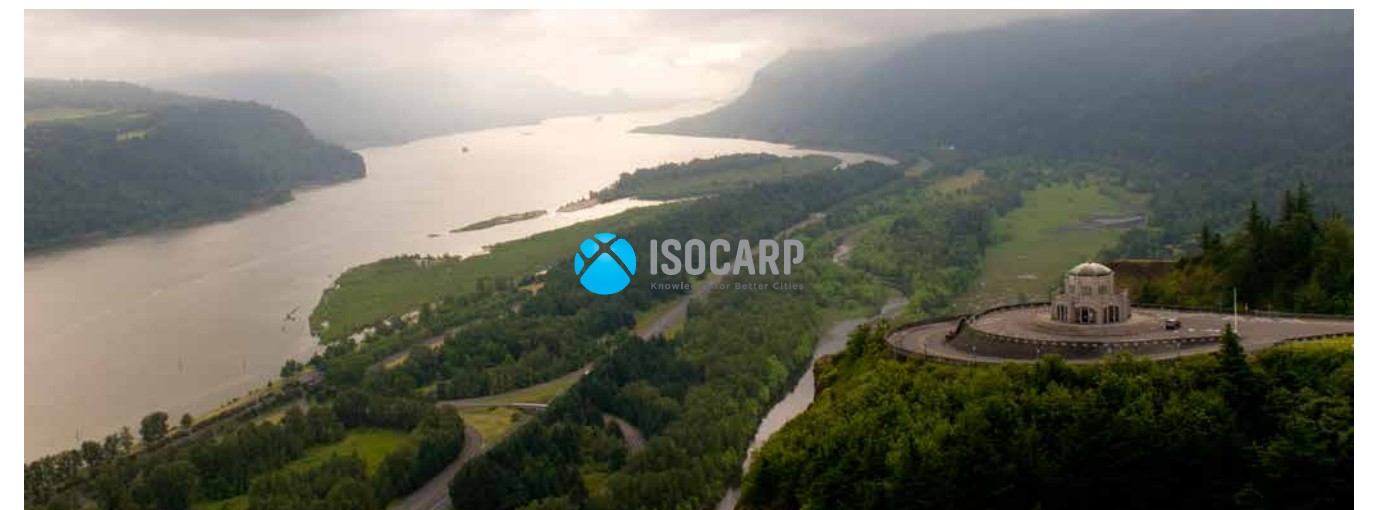
Room 146

## Conclusions and Recommendations

16:00 - 17:00

Room 255

A think tank in action "Towards Sustainable Cities We Need"





# Track 1: Technology, infrastructure and buildings



by Mairura Omwenga

## Overview of technology, infrastructure and buildings

Towns, cities or metropolitan regions are a concentration of millions of people, many mixed human activities, buildings, infrastructure and technology that form a complex and dynamic system. People, their activities, buildings, infrastructure and technology directly relate and form a complex city community. In the light of the world sustainable development goals and the congress theme on smart communities, it means that human activities, buildings, infrastructure and technology must be planned and developed in an integrated way so as to serve all people and interests in the city and the region. “Smart communities” also means planning and developing socio-economic activities, buildings, infrastructure and technologies that are accessible, affordable, energy efficient, green and environmentally friendly and sourced locally. As complex entities, cities must have appropriate information and communication technology (ICT) system to effectively manage them.

Track 1 is focused on three sectors that reflect experience from both developing and developed world cities and regions. The three sectors are – information and communication technology, buildings, and infrastructure.

## 1. Information and communication technology (ICT)

The term “smart” development of communities is closely related to the use of ICT in the planning, development and management of cities. It is well known that information is power. In order to effectively plan and manage the complex cities, adequate information must be collected, analyzed and processed to inform decision making. This sector will be looking at various ICT options as it relates to urban planning and management, buildings, and infrastructure works. How effective and smart are these ICT options in different world cities and sectors?

-How can ICT support city planning, development and management?

-What is the data requirement for an integrated urban ICT system?

A number of ICT tools, case studies and projects are presented and illustrate the application in city planning and management.

## 2. Buildings

Cities are a concentration of and a mixed complex system of buildings. Building structures vary from simple residential units to huge, tall and complex blocks that include shopping malls, offices, hotels, and industrial parks. Building design, construction and operation technology in cities is changing fast and becoming complex. Buildings must now be “green and smart” – energy efficient, environmentally friendly and use local materials.

The sector will present actual projects, highlighting the various stages in planning, design, construction and operation of the building works. The presentation will also be aimed at rating the building works as being smart and green. The use of World Green Building Council standards or other national rating standards will be encouraged.

-How do we make urban spaces and buildings more green and livable?

-Various options explored include – new technology options in movement and interaction, street design, and green buildings.

## 3. Infrastructure

The Infrastructure and utilities system has been described as the life blood system of a city. World urban population is growing fast and the increasing demand is putting a lot of strain on the supply and maintenance of infrastructure services. The sector will address various sub-sectors, including water supply, sanitation, drainage, energy, communication and transport.

Cities are major consumers of water. Many cities are faced with acute water shortage as the supply is not able to meet the demand. Water sources are getting depleted and many are getting polluted. What are the exact water challenges facing world cities and what

efforts have been put in place to tackle these challenges? What smart technology options are available to sort out the water challenges in our cities?

Inadequate poor waste water and solid waste disposal systems and floods are challenges facing many towns and cities globally. What smart and green technology options are available to tackle these problems? The potential for waste water recycling and ban on use of plastics will be areas of interest in the congress.

In any country, cities are the major consumers of electrical energy and fossil fuel. Production of electricity from nuclear fuel, coal and oil is no longer considered sustainable and poses serious risks to the environment and human health. The use of smarter and greener energy sources like solar and wind is receiving encouraging support globally. What green energy potential exists in different countries and cities and what is the level of utilization? How has technology improved the supply and use of green energy supply?

The Congress will also be addressing the transport challenge in our cities. Cities are faced with heavy traffic jams, long commuter distances, heavy usage of the private car, poor public transport services, high transport costs, high accident risks, and air pollution. There is poor provision for walking and cycling infrastructure. What safer, smarter and greener transport technology options are available in out towns?

We invite you to discuss smart technology, buildings and infrastructure.

-What new energy and transport technology options are available to promote sustainable urban development?

Some of the potential solutions available include solar products and expanding the pedestrian infrastructure in our cities.

Co-moderator for Sessions 3 & 6:  
**Kirsten Tilleman**  
Co-moderator for Session 8  
**Aaron Ray**

## Session 1: Information & communication technology & data systems

25 October (Wednesday) 11:00-12:30

Guy VLOEBERGH, OMGEVING cvba/University of Antwerp; Bjorn BRACKE, Pieter VAN DEN BROECK, Antwerp, Belgium

### ECODISTR-ICT, Integrated decision support tool for retrofit and renewal towards sustainable districts

The ECODISTR-ICT project was a four-year research project in which an integrated decision support system (IDSS) for sustainable retrofitting projects on district level was developed and tested in different case studies. The IDSS helps to align all stakeholders and decisionmakers to reach a mutually supported vision, based on comprehensible data.

Yi LIU, Shanshan ZHANG, Tian WANG, Harbin Institute of Technology, Harbin, China

### Study on the rationality of resource allocation in rural medical space based on spatial data analysis

This paper constructs the theoretical model on the rationality of resource allocation in rural medical space on the basis of spatial data analysis method, which brings new regulation and guidance on resources allocation in medical space.

Piotr Marek SMOLNICKI, Gdansk University of Technology, Gdansk, Poland

### Connected & automated urban mobility, zombie cars and kitchen knives: will autonomous automobiles, self-driving car-sharing and ride-hailing, and driverless shuttles harm cities?

The author presents assumptions how three different emerging automated mobility technical-organisational solutions: autonomous automobiles, self-driving cars and driverless shuttles could impact metropolitan structures of both cities and suburban areas.

Aida DOBRUNA, Sadije KELMENDI, Artnet HASKUKA, Lumnije GASHI-SHABANI, Rudina QERIMI, Shkelqim DACI, Drita NUSHI, Kosovo Center for Urban Research PRO-Planning, Pristina, Kosovo

### Cut costs not commodities; co-generation for future generations

An introduction to Pristina's latest undertakings with respect to becoming a smart city. First efforts include district heating, its efficiency and cost-effectiveness towards a more budget friendly heating alternative.

Raina SINGH, The Energy and Resources Institute, New Delhi, India

### India's Smart Cities paving the way for sustainable and resilient urban growth: case study –Dharamshala

Case study of Dharamshala, one of the cities under India's Smart Cities Mission, and its endeavours towards smart, resilient, and sustainable growth. The paper will discuss 'smart solutions' being adopted by the city and highlight its efforts to align with SDG 11, the New Urban Agenda and Paris Climate Agreement.

## Session 2: Beyond the black box: communicating data and evidence to the public

25 October (Wednesday) 14:00-15:30

Moderator: Katie MANGLE, Alta Planning + Design/Portland, USA

Speakers: Kelly RODGERS, Streetsmart, Portland, Mike SELLINGER, Alta Planning + Design, Portland, Oregon, USA

How can planners better integrate data and evidence in transportation planning? Explore three approaches to presenting data and research to help communities make more informed decisions. Discussion will explore the role of data, the tension between generalized research and local contexts, and transparency in decision-making.

## Session 3: Sustainable buildings and urban space

25 October (Wednesday) 16:00-17:30

Joanna PRIGARA, Aalborg University, Aalborg, Denmark

### The re-defined city space

Contemporary cities, influenced by technology and mobility needs of their users, face the challenge of re-adaptation. The future of streets as known is questioned and a solution promoting a different movement pattern between buildings is proposed. The re-defined city space academic project design provides insight in the advantage of a programmable city.

Kefa OMOTI MOSE, Parliament of Kenya, Nairobi, Kenya

### A study of the effects of planning and accessibility challenges on parliamentary functions in Kenya

Legislators play an important role in the entrenchment of planning practice and influence national planning policy decisions. However, planning and public places design systems in Kenya and other developing countries have failed to ensure the inclusion of legislators with disabilities. This paper examines the effects of inaccessibility.

Peter Njeru NJUE, University of Nairobi, Nairobi, Kenya; Marylyn Mumbua

MUSYIMI, Architectural Association of Kenya, Nairobi, Kenya

### Building information modelling in urbanising Kenya

This paper explores best practice in BIM use around the world as a catalyst for harnessing technology to address the challenge of rapid urbanization change. In advocating for BIM institutionalisation and integration with existing e-permitting systems in Kenya, this paper will suggest ways these best practices can appropriately applied.

Lui LI, Timothy HEATH, the University of Nottingham, Nottingham, UK

### Vertical farms: the innovative trinity of plant factory technology, smart green infrastructure and high rise buildings

Based on potential tremendous advantages of vertical farm, the paper will articulate how the concept can become reality through holistic design solutions involve integrating plant factory technology, smart green infrastructure and high-rise building into an efficient modern controlled 'living installation' that demonstrate roles in more sustainable and better urban environments.

Yi FENG, Nanjing, China

### Effects of street built environment on street vitality, an empirical study in Nanjing, China

An empirical study with a statistical approach is conducted to find out the critical factors in the built environment that lead to street vitality.

Daniele VETTORATO, Urban and Regional Energy Systems – European Academy (EURAC), Bolzano, Italy

### Smart city planning: from theory to application. The case study of Bolzano, a smart European city

The paper discusses how to move from the theoretical concept of smart urban planning to real application in cities. An innovative urban planning framework is provided and applied to Bolzano, a lighthouse smart city involved in a European project. The discussion focuses on the replicability of this innovative planning experience.

## Session 4: The unpaved road to housing affordability: what role does technology play?

26 October (Thursday) 11:00-12:30

Moderator: Robert PARKER, Community Service Center, EUGENE, USA

Speakers: Nicholas MELTZER, Community Service Center, University of Oregon; Eugene, Rebecca LEWIS, University of Oregon, Eugene; Emily BROWN, USDA Rural Development North Dakota; Sadie DINATALE, CASA of Oregon, Sherwood,; Andrew MARTIN, Lane Transit District, Eugene; Ethan STUCKMAYER, Mackenzie, Portland, USA

This session will present a holistic picture of the causes and potential solutions to housing affordability, and illustrate how a more informed conversation can tell whether technology is helpful or hurtful to enhancing livability.

## Session 5: Autonomous vehicles: what the revolution means for you

26 October (Thursday) 14:00-15:30

Moderator: Ben WEBER, SERA Architects, Portland, USA

Speakers: Heidi GUENIN, Gridworks, Portland, USA; Peter HURLEY, Portland Bureau of Transportation, USA; Jeff HOSEA, SERA Architects, Portland, USA

The implications of autonomous vehicles for cities, places, and people are immense. Planners, designers, policy-makers, and transportation operators face many unknowns preparing for the changing mobility landscape it will bring. We will explore some of the biggest questions facing our profession as we seek to responsibly accommodate an autonomous future.



Session 6: Smart infrastructure and transport  
26 October (Thursday) 16:00-17:30

Dong ZHENG, Shanghai Tongji Urban Planning & Design Institute, Shanghai, China

**New energy and technology promote the ecological sustainable development and improve the living conditions of historic towns south of Yangtze River**

Strategies and methods to apply new energy and technology to promote ecological sustainable development and improve the living conditions of historic towns South of Yangtze River without destroying the landscape characteristics of the historic towns.

Julia UBEDA BRIONES, Amsterdam, Netherlands

**Walkability in Amsterdam: from scientific research to pedestrian policy making**

This study case is a successful example of applied research in the city of Amsterdam. It highlights the transition from walkability scientific research studies, combined with current pedestrian policies, to applicable knowledge to the city itself; a valid methodology is set up to analyse the walkability in the study area.

Benjamin SCHEERBARTH, Eckwerk Entwicklungs GmbH, Berlin, Germany

**Scrutinizing greenness and smartness in new construction: toward an economical, context-conscious, and circular approach. The case of Das Eckwerk, Berlin**

Drawing on practical experience from the planning of “Das Eckwerk”, an innovation hub with student living, the author suggests that the bottleneck to building smart is not the availability of smart and eco-innovative technologies but rather the linearity of value chains in urban development, which disincentives their deployment.

Ian CARLTON, Emily PICHA, ECONorthwest + MapCraft.io, Portland, USA

**Betting on transit and TOD in Las Vegas**

Taking a play out of the Portland transit planning playbook, Las Vegas is placing a bet that coordinated transportation and land use planning will galvanize support for regional transit investments. This presentation will highlight an innovative process that allowed the Regional Transportation Commission to better understand their TOD opportunities.

Bowen CHEN, Tongji University, Shanghai, China

**Dynamic evolution of community population spatial distribution in Guangzhou under the impact of urban rail transit**

Based on the fifth and the sixth census data materials of Guangzhou, the paper uses the methods of GIS spatial analysis and mathematical modeling to analyze the spatial characteristics and evolution trend of community population distribution under the influence of large-scale and high-speed urban rail transit construction from 2000.

Le ZHU, Nanjing University, Nanjing, China

**Bus nirvana: The experience and revelation of Nanjing develop Transit Metropolis**

The study is based on a thorough interpretation of public transport supply and demand. It gives an analysis on what is the basic power for the development of a transit metropolis.

Session 7: Washington County transportation futures study  
27 October (Friday) 11:00-12:30

Moderator: Chris DEFFEBACH, Washington County, Hillsboro, USA

Speakers: Terry MOORE, ECONorthwest, PORTLAND, USA; Erin WARDELL, Washington County, Hillsboro, USA; Dyami VALENTINE, Washington County, Hillsboro, USA; Jeanne LAWSON, JLA, USA

The Washington County Transportation Futures Study evaluated long-term transportation strategies and investments needed to sustain the County's economic health and quality of life for decades to come. The Study looked 50 years in the future, focusing on longer-term land use and transportation challenges and opportunities.

Session 8: Green smart buildings and development  
27 October (Friday) 14:00-15:30

Hong LENG, Yutong XIAO, Harbin Institute of Technology, Harbin, China

**Associations between public space preference and residents' personal characteristics in Northeast small towns of China**

In this paper, by using mathematical methods, we focus on the correlation research of public space preference and residents' personal characteristics on the scale of northeast small towns in China.

Ahmad SOHAIL, Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin, Technische Universität Berlin, Germany, LabSet, Delhi, India; Felix CREUTZIG, Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin, Technische Universität Berlin, Germany; Shonali PACHAURI, International Institute for Applied Systems Analysis, Berlin, Germany

**Urban planning strategies for improving public health and reducing emissions: a co-benefits approach**

This study shows that electricity-related issues like kitchen/stove/ piped-water are crucial to reduce short term morbidity but also increase emissions. Synergies can if at all be reaped by a non-motorized transport/cycling strategy.

Roshmi SEN, Subrata CHATTOPADHYAY, IIT Kharagpur, Kharagpur, India;

Forrest MEGGERS, Princeton University, Princeton, USA

**Planning for centralized cooling systems in high density mass housing in tropics- towards smart energy policy in residential communities**

The given study outlines the various available alternative centralized cooling technologies applicable to mass housing complexes. The study then investigates upon the institutional mechanisms, cost sharing strategies and ownership models towards implementing such centralized cooling systems in high density housing stock for developing nations.

Keith DAVIS, Philadelphia, USA

**Advancing equitable community development goals with ‘Do It Yourself’ technology**

Philadelphia is realizing significant growth; but, leveraging development interest to shape a healthier built environment remains a challenge. In my presentation, I will introduce a tool that harnesses the power of open data to cast light on neighborhood health disparities and potentially impactful projects... All on your smart phone.

# Track 2: Governance and inclusive communities



by Philippe Vaillant, France

Inclusiveness means not leaving anyone on the roadside. And this, in all the dimensions of the ordinary, personal and community life of everyone (E. Mounier). The world has never been so rich. At the same time, it has never been so unequal and destructive of societies, environment, biodiversity and millennial institutions. The world is now limited in resources. So, to face with resource constraints, cross-cutting approach is necessary. Faced with riches, an inclusive world is possible! It is possible to change look, mentality, individual and collective posture ... and transform the world towards inclusiveness!

It takes few words to say this essential, but it takes all the words to make it real, and put into play, putting into motion all the dimensions at the same time. The urban planner has a privileged contribution to give to the world. To achieve inclusiveness, today, we must combine sustainable development with a view to the resilience of societies and cultures on their territory, through their institutions. It is proposed to observe inclusivity in the following interactions:

This scheme applies to the different territorial scales, including cities (about 100 km<sup>2</sup>, radius of 6 km), agglomerations (2000 km<sup>2</sup>, radius of 25 km) and regions (about 32 000 km<sup>2</sup>, 100 km radius) create convivial and inclusive regions (W. (B.) Twitchett, thesis 1995 and ISOCARP, 2003. See also ISOCARP 2004, 2005, 2008, <http://www.twitchett.org/isocarp-congresses>). Is not now the regional level that articulates urban, rural and natural planning, from the potential, but mostly territorial limits (UN-PPPV-49 & 136). Show the three axes, or vectors, from the sustainable development:

Governance, based on territory, is specific to each society and its institutions. The territory is the basic brick of governance. (P.Calame 1997, 2013, Foundation for Human Progress -FPH-) In the old wisdom of indigenous peoples, **“The Land is the source of the Law”** (CF

Black, 2011). Is this not the meaning, for example, new approaches like economy relocation, the increasing importance of the Social Solidarity Economy, residential economy, the functional economy, short circuits, producer-to-consumer schemes, local currencies and local citizen participation?

Science and technology, including planning, are society-based, are carried by institutions on a territory. Society and its culture are the source of science and technology. (B.Latour, 2013, I.Stengers, 2010);

Common, territorial, public, collective or universal Goods, well maintained, fertilize the territory and the society. Water, sustainable development, climate ... Public and private institutions (whose economy is only one dimension) are – or should be – the place of community expression of Common Goods. (E.Osborn, 2010, J.Rifkin, 2011, 2014). The social climate is also part of the common good, as well as connection to the territory, sense of belonging.

This transversal way of seeing, thinking, acting is organic, processual, transcultural (AN Whitehead, PR-1978, A. Berque, 2013, DR Griffin, 2007, J. Grange, 1997 & 1999, P. Vaillant, 2008). It is friendly and fraternal by combining unity and diversity. These inclusive processes allow for “co-growth of things together”, “con-crescence”. Each concrescence shape the experience of everyday drops (Whitehead 1978-PR 334-328) path to inclusiveness.

All drops of experience from around the world come together in this intelligent way (Smart Way Toward inclusiveness) to become transformation vectors of our societies towards inclusiveness. The declination of the scheme on the theme of inclusiveness, crossed with the proposed contributions, leads to the following themes

- Definition of inclusive intelligent communities
- Institutions and inclusivity

Co-moderator for Sessions 2 & 4:

**Grace Stainbeck**

Co-moderator for Session 5:

**Kaitlin Berger**

Moderator for Track 2 cont.:

**Damian Syrnyk (27 Oct 11:00)**

Territory and social inclusion: emergence of new strategies

Governance and citizen participation

Planning and inclusiveness: indigenous peoples, informal settlements and traditional planning.

An organic methodological method will be proposed for setting link presented drops of experiences, encourage comparisons, and feed the dialogue and exchange of experience, in a dialogical relationship (P. Freire, 1993 J. Marin, Unesco 2014) : Learn from the Other, different, and enrich ourselves with our differences. On the other hand, the exchanges on the selected cases, and the debates will be fed by the link with the exhibitors, the posters, and the numerous papers proposed for publication at the congress

## 1. Definition of inclusive intelligent communities

A definition of the inclusiveness and the modes of governance that favors it is necessary in the first place. This is the occasion in a first session to discuss the new proposals of Habitat III, in its many occurrences on inclusiveness, and how to promote it on the territories.

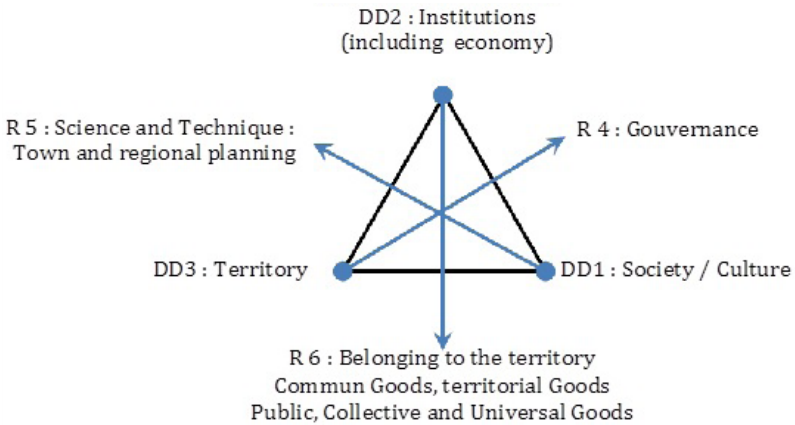
A second session specifies this new way of seeing and undertaking through major initiatives, at the planning scales of the region, cities, towns and neighborhoods, agglomeration, region, state, continent and planet. China wonders how to combine historic and (post) modernity, India undertakes the implementation of 100 Smart Cities, Lagos city 12 million people asks the crucial questions, Kenya declines an approach to planning democratic. Other insights will enrich the definition of inclusiveness.

## 2. Institutions and inclusiveness

Portland is the case of an institution to face the challenges of inclusion of populations. Coming to Portland is an opportunity to see, live the initiatives of an internationally



Fig. 1: Schematic conjugation of sustainable development to the resilience of societies and cultures on their territory through their institutions, to inclusiveness (Source: P.Vaillant ISOCARP Brisbane, Delft 2015, NGO-P.Vaillant Yamoussoukro Forum UNESCO-2014).



renowned city for its ecological approach, the integration of working-class neighborhoods in a participatory and inclusive approach. Following the ambitious 2012 Plan, an initial assessment was drawn up in 2017. What are the lessons learned in this process that involve 20 agencies? What results? What new perspectives?

### 3. Territory and social inclusion: emergence of new strategies

How can territorial constraints and potentials develop governance strategies for the inclusion of disadvantaged populations in terms of housing, equity and participation?

### 4. Governance and citizen participation

Across the world, new models of up-and-coming governance are emerging. Citizen participation allows the expression of the aspirations of the population, and of its "mastery of use" in an ascending logic. Citizens know their territory, constraints, potentialities, and together can guide their destiny. The local is the best place to articulate the global and the local (some speak of "glocal"). Is it not by learning inclusively of ALL citizens, including the most vulnerable, and co-constructing planning and planning policies that are create the conditions of prosperity and human success of the community? From India, to South Africa, and other places?

### 5. Inclusiveness, indigenous people, informal settlements and traditional planning

Post-modern science and traditional knowledge are the fruits of the society that gives birth to them and their culture. The Art of Planning and Urbanism are part of these sciences and knowledge, sometimes millennia old. They can be combined with (post) modernity, on the condition of preserving its meaning, under penalty of destroying not only societies, but also their territory. How to reconcile tradition and change, protection of a remarkable territory and economic appetites? How does planning contribute to these regulations?

### 6. Common goods, territorial inclusiveness: sense of belonging and neighborhood cohesion

The convivial and inclusive social climate is the common good of society. How does citizen participation contribute to creating, maintaining and developing it? Neighborhoods seem now involved in the production of renewable energy, residential economy, environmental actions, solidarity with the weakest, Through examples of practices in India, China, Kenya, can we find simple rules generalizable to other places of the world, to create living and inclusive cities, in all dimensions of inclusiveness? Do we not witness the increasing expression of the sense of belonging, with the establishment of new collaborative common to face the many challenges of living together?

### Session 1: The Portland Plan: measuring progress towards equity

25 October (Wednesday) 11:00-12:30

**Moderator:** Eric ENGSTROM, City of Portland, Portland, USA  
**Speakers:** Andre BAUGH, Group AGB, USA; Kimberly BRANAM, Prosper Portland, Portland; Andrea VALDERRAMA, City of Portland, Portland, USA  
Portland is often cited as a planning success, but it is challenged by persistent racial disparities. In 2008 the City joined with 20 other agencies to create a common strategy to advance equity - the Portland Plan. This session will discuss the plan, review progress, and explore lessons learned.

### Session 2: Defining inclusive smart communities

25 October (Wednesday) 14:00-15:30

**Awaits PIRACHA, Karthik KUMAR, Western Sydney University, Minchinbury, Australia**  
**‘Smart’ governance in the 100 Smart City Mission of India**  
This research is an attempt to discover what importance has been given to the governance and participatory planning by the 100 Smart City Mission? It examines the aims and strategies and assesses participatory planning and smart governance initiatives in the selected Smart Cities.

**Arpan PAUL, Ankhi BANERJEE, Joy SEN, Indian Institute of Technology Kharagpur, Kharagpur, India**  
**A policy development framework for inclusive communities to achieve desired livability**  
Ever increasing population pressure within cities has created a concern for their future regarding from social well-being perspectives. At this setting, the importance of inclusive communities has re-emerged in urban planning domain. This paper attempts to evaluate livability through parameters representing the major components of an inclusive community.

**Mengyue LI; Peng ZENG; Zhong YU, Tianjin, China**  
**Deliberative planning and its implementation path in historic districts renewal: a comparative study on Chifeng Road in Tianjin and Enning Road in Guangzhou**  
Based on interviews and materials collected from media, this paper took the Enning Road renovation project in Guangzhou as an example, and illustrated the deliberative planning and its implementation path in historic districts renewal.

**Ryan KRUEGER, City of Troutdale, Troutdale, USA**  
**Regional coordination and workforce housing: a review of western U.S. tourism-base resort economies**  
The provision of affordable housing, particularly in high amenity economies, has increasingly becoming the single-most important policy consideration facing local decision makers in Western resort communities. This case-study research seek to understand whether the creation of regional decision making platforms could lead to increased availability of cost-effective housing solutions.

**Haydee Jacklyn QUINTANA MALUBAY, University of the Philippines, Taguig, Philippines**  
**Smart world:reengineering the planning process through a global planning code**  
From a big picture vantage point, reengineering the planning process through a global planning code is a smart initiative that will revolutionize planning practice for the whole world. Extraction of the vital elements for such a Code from the UN Habitat Conference inputs is the first step.

### Session 3: The International Guidelines on Urban and Territorial Planning: bridge for planning & innovation

25 October (Wednesday) 16:00-17:30

**Moderator:** Andrea OYUELA, United Nations Human Settlements Programme (UN-Habitat), Nairobi, Kenya  
UN-Habitat's International Guidelines on Urban and Territorial Planning are a universal reference framework that can bring planning and innovation together through their territorial approach to planning and by enabling institutional integration within planning systems, in order to achieve more compact, inclusive, better integrated, connected and climate resilient cities and territories.

### Session 4: Inclusiveness, indigenous people, informal settlement and traditional planning

26 October (Thursday) 11:00-12:30

**Maitreyi YELLAPRAGADA, Milieu5 Design Studio, Bellevue, USA; Shubhi SONAL, REVA Institute of Technology and Management, Bangalore, India**  
**Data-driven approach towards Inclusive Urban Transportation: A case of Hyderabad**  
The planning and design of transport systems are not often inclusive of its users. This paper aims to assess transportation systems for inclusivity by analyzing datasets of users on parameters pertaining to safety, infrastructure etc for urban local bodies to make conclusive decisions in improving the existing transport amenities.

**Jing QIAO; Hong GENG, HuaZhong University of Science and Technology, Wuhan, China**  
**Research on the development path of inclusive rural communities in the context of pseudo counter-urbanization taking Wuhan in China as an example**  
By taking Wuhan City as an example and exploring from the perspective of pseudo-counter-urbanization, this paper is designed to analyze the current dilemma in front of rural community development and propose the principle of building inclusive smart contraction-oriented rural communities based on Wuhan's urbanization characteristics.

**Siyabonga NJEKE, KZN Department of Co-operative Governance and Traditional Affairs, Durban, South Africa**  
**The development of traditional settlement master plans: A response to undocumented indigenous planning practices in rural kwaZulu-Natal**  
Discussing the disjuncture's of the past that are still influential in planning legislation in the present South African planning context. Through reflecting on the impact this had on the governance and planning in rural communities to further explore the challenges posed on service delivery within the 5 identified traditional/rural communities.

**Tamra MABBOTT; Ed SULLIVAN, Umatilla County, Pendleton, USA**  
**Renewable energy project siting - an evaluation of Oregon and California processes**  
Renewable Portfolio Standards will instigate a large number of new energy generation and transmission projects with potential impacts on landscape, habitat, farm land and people. The proposed panel will evaluate the land use planning and permitting approaches in the States of Oregon and California.

### Session 5: Governance and citizen participation

26 October (Thursday) 14:00-15:30

**Mischka JACOBUS; Stuart Paul DENOON-STEVEN; Verna NEL, University of Free State, Bloemfontein, South Africa**  
**Encouraging inclusive communities through zoning reform**  
Oppressive zoning practices as a form of development control in South Africa has been criticised. This 'oppression' is evidently depicted in the Town Planning Schemes. This paper indicates how land use regulations have affected the livelihoods of the urban poor and indicates the impact of governance in inclusive community building.

**Rose MUSYOKA; Herbert MUSOGA, National Land Commission, Nairobi, Kenya; KAKUCHA MBWAGWA, Center for Urban and Regional Planning, Nairobi, Kenya**  
**Is devolution a panacea for making planning more democratic? The Kenyan experience**  
Using the plan preparation process of the Lamu County Spatial Plan as a case study, we investigate the role that devolution has played in making planning more democratic. We also inquire into the level to which public participation has been broadened and deepened to realize inclusivity and good governance.

**Dirk ENGELKE, HSR Hochschule für Technik Rapperswil, Rapperswil, Switzerland; KIWITT, Verband Region Stuttgart, Stuttgart, Germany**  
**Does technology or the people rule smart communities? – governance and participation in the age of digitization**  
Designing a governance strategy to balance smart technologies with their algorithm based decision logic and democratic planning procedures is key for city regions to become a smart community. By

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the help of different case studies the authors point out basic factors for such governance strategy.

Mthobisi MASINGA, KENA Consult (Pty) Ltd., Pretoria, South Africa

**Rural land use management & regulatory guidelines**

The Guidelines are a strategic instrument to help in the achievement of various policy objectives nationally. They will provide the necessary guidance in the defining of rural areas, framing of desired rural spatial planning outcomes and facilitate interaction between the various spheres of government towards achieving such desired outcomes.

**Session 6: Smart City governance co-creating inclusive places**

26 October (Thursday) 16:00-17:30

Moderator: David LUDLOW, UWE, Bristol, UK

Speakers: Ahn JUNGJOON, Seoul Metropolitan Government, South Korea; Kevin MARTIN, City of Portland, USA; Jonas BYLUND, JPI Urban Europe; Peter ULRICH, ICLEI European Secretariat

Smart city governance innovations are redefining opportunities for city planning globally. Societal and technological innovation provides a dynamic that is driving the generation of new models of integrated and participatory land use planning. The key session question is how can urban planning effectively engage to promote open co-created urban governance?

**Session 7: Neighbourhood cohesion**

27 October (Friday) 11:00-12:30

Abdulrazak MOHAMED, School of Planning and Architecture, Vijayawada, India

**Building of “new neighbourhood climate” of sustainable use of water and energy resources for making smart communities and smart neighbourhoods in cities in India**

Building a new “Neighbourhood Climate” where the households and communities take up useful actions which are environment sensitive and sustainable. The creation of a “Neighbourhood Behavior” and a “New Household Culture” by doing individually and collectively towards environmental friendly and socially relevant actions.

Shraddha BAHIRAT; Sanghamitra BASU, IIT Khragapur, Kharagpur, India

**Understanding gated communities of India and their impact on the neighbourhood cohesion with special focus on digital technology as a means of communication and governance**

While understanding ‘Gated Communities’ as a new form of urban residential development in India, this paper examines the impact of such developments and digital technology on the neighbourhood cohesion. The study is based on a questionnaire based pilot survey conducted in six gated communities and their surrounding neighbourhoods in Bangalore.

Haining CHEN; Jianguo WANG, Southeast University, Nanjing, China

**Coping with ‘online urbanization’: envision the Big Data industry’s effects on urban patterns**

The paper mainly elaborates the research on big data industry’s effects to foresee how this emerging field will affect the urban patterns in the new era which we can identify as the era of online urbanization. Big data industry development in Nanjing, China will be explicated as the research case.

David CAPELLI; TECH Miami Inc., Miami; Carla MAYS, MAYS CIVIC INNOVATION; Michael CABALEERO; Libby BARNES, USA

**Placekeeping: Building the economy for smart & sustainable neighborhood development**

There is an urgent need to increase more inclusive sustainability and equity-based development in Priority Development Areas (PDAs) by increasing the number of diverse professionals with market-validated training. We are launching an educational series to teach professionals a participatory/community based design process for accreditation in sustainable community & economic development.

**Session 8: Equitable growth policies and community partnerships drive a city’s housing strategy along a major transit corridor**

27 October (Friday) 14:00-15:30

Moderator: Ryan CURREN, City of Portland, Portland, USA

Speakers: Matthew TSCHABOLD, Portland Housing Bureau, USA; Rachael DUKE, Community Partners for Affordable Housing, USA

A panel discussion on one equitable TOD planning effort with the city planning and policy staff and the community-based organizations participating in the process. Learn how shared equity goals, clear and complimentary roles, and inclusive community engagement operationalizes equitable growth policies for new light rail investments.

**Track 2 continued: Governance and Inclusive Communities**

27 October (Friday) 11:00-12:30 (Track 6 / Session 7)

Ghada MOURAD: Heba KHALIL; Mohamed ZAYED, Faculty of Engineering, Cairo University, Cairo, Egypt

**Evaluation of the situation in Greater Cairo with regards to citizen participation in urban governance through the emerging information and communication technologies**

The paper evaluates citizen participation in urban governance through the emerging information and communication technologies in Greater Cairo. It explores one of the local cases that took advantage of the emerging technologies for participation, and measures readiness of Greater Cairo inhabitants to participate through these technologies using a questionnaire survey.

Ying ZHANG, Shanghai, China

**Early childhood community facilities in China--gap and prospect**

The paper aims to present the significance and insufficiency of the early childhood community facilities in China, and to find the directions of the development in the future.

Herbert MUSOGA; Rose KITUR; Tom CHAVANGI, National Land Commission, Nairobi, Kenya;

**Exploring polycentric potential for planning for vibrant secondary towns: A planning scenario case study of Mumias Town, Western Kenya**

Through a case study of planning of Mumias Town in Western Kenya we share the experiences of applying the polycentricity concept to a developing country setting. We explore the opportunities presented by the apparent morphology juxtaposed upon the administrative structure to realize devolution aspirations.

Xiaobo LU; Junyan YANG, Southeast University, Nanjing, China

**Inclusive urban design based on the shared waterfront: a project of Nantong Nine-Rivers**

In order to build a waterfront open space suitable for walking with high accessibility, beautiful environment and diversified activities, the Nantong Nine-rivers Urban Design project proposes an inclusive urban design approach through space accessibility design, mixing functions, ecological restoration and organizing various activities.

Valliappan ALAGAPPAN, Vijayawada School of Planning and Architecture, Vijayawada, India

**Is Accessibility Indices, a smart decision support system (DSS) tool for measuring access of mobility impaired in public spaces? A comprehensive review of literature.**

Accessibility for mobility impaired in built environment leads to efficient utilization, revisit of places and reduces disparity. The accessibility indices developed at various contexts, does not address the relative, absolute access, intensity and categories of disability, gender and age groups. The tool developed will act as smart decision support system.

**Track 2 continued: Governance and inclusive communities**

27 October (Friday) 14:00-15:30 (Track 5 / Session 8)

Amit KAUR; Sumana GUPTA, Indian Institute of Technology (IIT) Kharagpur, Kharagpur, India

**A Comparative study of satisfaction level for middle-income group residents’ of government housings and public private partnership housings**

Public Private Partnership model and group housings provided by government agencies of West Bengal, India highlight the role of governance in making the Middle Income Group more inclusive. However, the PPP model is more successful, evident from higher stated residents’ satisfaction level with the costs incurred and value of savings.

Xiao CHEN, WANG, Nanjing, China

**An inclusive study on the renewal of urban fringe area - a case study of the four villages in Hangzhou Shiqiao sub-district**

Urban fringe area has certain complexity in the aspects of society and comes across a series of “inclusive” social contradiction. The research summarizes the existing problems and methods for urban fringe area renewal and takes four villages of Shiqiao sub-district in Hangzhou as an example for renewal.

Mukoya Kent ALWAKA, Nairobi Water and Sewerage Company, Nairobi, Kenya

**An integrated assessment of the effectiveness of multiple level water governance structure: case study of Kenya water sector**

Effective management and access to water resources is vital to sustainable development and good governance.

Philippe VAILLANT, University of Lorraine, Charleville-Mezieres, France

**‘City policy’ in the 7 underprivileged districts of Ardenne Métropole: comparison of solutions with other districts in Europe and in the world**

In view of urban riots in France since 1983, we can say that the policy of the City” is considered as a failure. The case study presented here deals with the new French solutions bases in 7 districts of the Ardennes Métropole, compared to Europe and in the World.”







# Track 3: Smart culture, urban experience and shared economy



by Olusola Olufemi, Canada

The challenges facing humanity and human settlements have never been greater as the Planet Earth's projected population is estimated to reach 9 billion by the year 2045. From rural to small towns, cities to megacities, and from metropolitan cities to megalopolises, planners continue to grapple with population growth, demographic shifts, housing, energy, transportation, disease/health, food and water security, waste management, urbanization of poverty, urbanization and infrastructure deficit among others. What a better way to connect people, connect issues and connect municipalities than developing and adopting technologically relevant and smart planning tools and principles.

Providing for food, water, energy and safety needs requires collaboration among agencies/institutions; effective engagement of people and cultures; integration of new ideas, knowledge, communication and technology. More importantly, it requires smart planning, that is, new ways of conceiving, planning, and designing communities; analysing, diagnosing, assessing information and data; and managing people and infrastructures. Planning for smart,

complete and intelligent communities require safeguarding old and new memories, changing lifestyles and consumption patterns, adopting technologically relevant communication patterns, for example, understanding spatial structure through mobile phone data. While many communities are transforming to be smart, complete by embracing information technology, and remain competitive, others are still lagging behind.

In the sharing, access or collaborative economy, information communication technology (ICT), the Internet of Thing, Airbnb or Uber, to mention a few platforms, are critical in providing information and data spatial planning, resource optimization and collaborative consumption. Undoubtedly, utilizing smart devices to connect people, optimize resources, mutualize access and link infrastructures in communities constitute the bedrock of smart communities. Therefore, developing robust smart planning principles and incorporating smart growth principles in a sustainable manner is pivotal for future communities.

In achieving smart communities through culture, urban experience and the sharing economy, Track three intends to provoke discussions through these questions:

What constitutes a smart community?  
How culturally sensitive are smart communities?

What critical indicators are important towards designing and building smart communities?

What are the challenges of the open, smart, connected, mobile and sharing economy?

How green, efficient and replicable is the sharing economy and does it build social and cultural capital?

In what ways do sharing economy sites reproduce class, gender, racial biases, hierarchies, power relations and revitalize the local economies?

What kind of planning tools exist or could be developed to incorporate urban experience in the sharing economy to produce smart communities?

Co-moderator for Session 2:  
**Kaitlin Berger**  
Co-moderator for Session 6  
**Aaron Ray**

The content of the short outlines is the responsibility of authors.

## Session 1: Making good great: transforming 20th century industrial district into a next generation employment center

25 October (Wednesday) 11:00-12:30

Moderator: Amy KOSKI, City of Milwaukee, USA

Speakers: Alex DUPEY, MIG Inc. Portland, USA; Matthew CRAIGIE, ECONorthwest, USA

The North Milwaukee Industrial Area Plan seeks to reintroduce the environment to this traditional warehouse/distribution industrial hub through rebranding as an ecodistrict and leveraging of existing business' innovation. Creative land use strategies will help integrate increased employment density and connectivity rooted in the principals of preserving precious industrial land.

## Session 2: Smart mobility, digital transformation and energy efficiency

25 October (Wednesday) 14:00-15:30

Rumeysa CEYLAN, Aysegül OZBAKIR, Zeynep MEREY ENLIL, Yildiz Technical University, Istanbul, Turkey

### Let's Be Smart and Reduce Our Energy Use!

This paper focuses on how individuals learn to reduce their energy consumption towards an energy efficient lifestyle in three domains: dwelling, mobility and food. The research is an attempt to propose an individual learning feedback mechanism to reduce energy use through a web based platform which is compatible with smart phones.

Stephan REISS-SCHMIDT, City of Munich, Munich, Germany

### Digital transformation: cities between reaction and integrated strategies - case study Munich, Germany

Digital transformation is not a mere technical question, but an important action field for integrated urban strategies. The example of the EU-funded project Smarter Together in Munich shows the relevance of urban laboratories and co-creation for cultural and social innovation processes.

Xiaomin ZHU, Shanghai, China

### Smart communities: the coexisting of the high tech future and the intimate neighborhood past

Smart communities bring not only more convenient life to people but also create a belonging and identity to them.

## Smart culture, regenerative planning and sustainable economy

Zhao NING, Guangzhou, China; Jianjun WANG JIANJUN, Yongsheng SUN, Zhenhua ZHANG, Yao HU, China

### Reconsideration of conservation and regeneration of a suburban historic village: case study of Banghu Xu in Guangzhou, China

This paper, focusing on the development requirements of both historic villages and the city, rethinks the planning measures on conservation and regeneration in the pilot village of Banghu Xu, China. In this study a plan, which includes a bottom-line protection mechanism and an operation mechanism, was made to activate this area.

Kasumi SUSAKI, Ryukoku University, Kyoto, Japan

### Evaluation of Japanese residential area from a view point of living with companion animals - a case study in Japan's Hanshin-area

This paper presents issues of Japanese urban residential areas. The area is examined from the viewpoint of living with companion animals. The reason to take this viewpoint is that there is a connection with welfare issues and quality of life which are supported by planning.

## Session 3: Smart City placemaking in Kashiwa-no-ha, Japan

25 October (Wednesday) 16:00-17:30

Moderator: Charles KELLEY, ZGF Architects LLP, Portland, USA

Speakers: Amy JARVIS, ZGF Architects LLP, Portland, USA; Mitsu YAMAZAKI, Ziba Design

Kashiwa-no-ha Smart City, once a transit-oriented development, pioneers a new urban planning approach to create a resilient neighborhood. The master plan focuses on smart city placemaking and community stakeholder engagement for a collective vision. Kashiwa-

no-ha recently became the largest LEED Neighborhood Development Plan Platinum-certified smart city in the world.

## Session 4: Smart communities, smart technology and new planning tools

26 October (Thursday) 11:00-12:30

Zeynep GUNAY, Ervin SEZGIN, Eda BEYAZIT, Gorsev ARGIN, Istanbul Technical University, Istanbul, Turkey

### How smart is my planning education? Experiential reflections from Istanbul Technical University in building the smart community

Based on the experiential Planning Studio of the ITU, the paper introduces a smart platform to rethink planning education as a cornerstone of responsive, participatory and inclusive urban settlements: How smart is our planning education? What are pedagogical tools and methodologies for going smart? How does it affect transformative change?

Mani DHINGRA, Subrata CHATTOPADHYAY, Indian Institute of Technology, Kharagpur, Kharagpur, India

### Exploring the real smartness in an urban context through a deductive meta-synthesis approach

A deductive meta-synthesis approach on the concept of urban smartness. The main issue with conflating and the self-congratulatory Smart City are its market-led urban agenda without keeping in mind the needs of its local community. A new context-free and community oriented definition of Smart City is proposed.

Malgorzata HANZL, Lodz University of Technology, Lodz, Poland

### Analyses of human behaviour in public spaces

The studies of human behaviour are emerging rapidly. However intensive, the research remains disperse. The studies conducted in urban design, pedestrian mobility and small group behaviour and video analyses overlap. The paper aims at an overview of available methods, looking for their further application in the field of urban design.

Adriano BISELLO, Eurac research, Padua, Italy; Giuliano MARELLA, University of Padua, Padua, Italy; Daniele VETTORATO, Eurac research, Padova, Italy

### Residential property price barometers: a reliable tool for smart citizens? First evidences from Italy

Deciding to buy an apartment is always a crucial moment. Some web services offer a rough estimation of a likely value on the market. Unfortunately, they often lack a robust appraisal method. This research investigates the already available tools and suggests improvements to more reliable services for smart citizens.

Gonca AKGUL, Aysegül OZBAKIR, Zeynep MEREY ENLIL, Yildiz Technical University, Istanbul, Turkey

### A spark of change: awareness on energy consumption through the mobility choices

When the energy use rates are examined, it is observed that transportation is one of the significant sectors that accounts for roughly 27% of total world energy consumption. This paper focuses on individual's choices on urban mobility, and aims to understand how learning platforms affect behavior on mobility towards sustainability.

## Session 5: Story of Place: A framework for regenerative planning

26 October (Thursday) 14:00-15:30

Moderator: Timothy MURPHY, Regenesi Group, Santa Fe, USA

Speakers: Timothy MURPHY, Ray LUCCHESI, Regenesi Group, Santa Fe, USA

A dialogue-based session on Story of Place®, a methodology for engaging community stakeholders in an inquiry into the unique potential of their place. Story of Place speaks to both how a place works and what it strives to contribute to the world, providing a powerful basis for planning work.



Session 6: Shared economies, social integration and engagement

26 October (Thursday) 16:00-17:30

Deddy KURNIAWAN HALIM, Jimbaran Hijau, Matana Univ, Jimbaran, Indonesia; Putu Agung PRIANTA, Jimbaran Hijau group, Bali, Indonesia

**Jimbaran Hijau: in search of sustainable inclusive development for smart communities**

Jimbaran Hijau is set to become the island's premier place that takes integrated development aiming to serve growing Bali as live, work and play destination which strive to make a new mark on inclusive, creative, smart and vibrant community village with green and healthy lifestyle.

Hong GENG, Erpeng SHI, Huazhong University of Science and Technology, Wuhan, China

**The influence of shared bicycle on the Chinese university community and the guidance of planning - a case study of Huazhong University of Science and Technology**

We will analyse the impact of shared bicycles on the campus community and and give solutions from the planning perspective for optimization.

Jiabin WEI, Xiang LI, Siyuan TANG, Tongji University, Shanghai, China

**Practice and analysis of sharing sports facilities in China - A comparative study of government-led and internet-led sharing modes**

According to the sharing cases of sports facilities in Chinese cities, this paper defines two kinds of sharing mode: government-led and Internet-led. This paper made a comparative study of the two sharing modes from many aspects and put forward a new model framework.

Martin TZOU, EDF; Shu DU, China Center for Urban Development, Beijing, China

**Cultural obstacles of sharing economy experiences in China and impacts on Chinese cities**

The recent massive success of the "sharing economy" model in the field of urban mobility in Chinese cities is highly controversial on its impact on the urban space, hiding at the same time the emergence of a truly community based sharing model in China.

Chengcheng LIU, Tianjin Urban Planning & Design Institute, Tianjin, China

**The construction of Chinese smart communities:"last mile "of serving the public life**

In order to meet the needs of public life within the "last mile", in planning and construction of the China smart community, the Internet +" concept is used. It is intended to enhance the hommization of community planning, to meet the needs of the public, promote public service and convenience services."



Kumar RAJENDRA, Ansal University, Gurgaon, India

**Urban village vs. slum: boon for Indian city development**

In today's world major cities are becoming hubs for migrations from smaller cities and towns. Our existing cities' limits of infrastructures are in danger because of the exponential population increase. Slums are becoming a part of a metropolis. Hence there is a need of integration of slum as urban elements.

Session 7: Urban Planning Advisory Teams: Practices from Wuhan and Bodø

27 October (Friday) 11:00-12:30

Moderators: Martin Dubbeling and Milena Ivkovic, ISOCARP Vice-Presidents

In 2017, ISOCARP organised two Urban Planning Advisory Team (UPAT) workshops, one in Wuhan (China) and the second in Bodø (Norway). ISOCARP has selected two teams of seven experts to travel to Wuhan and Bodø to stay and work for a week. In Wuhan the UPAT team assessed the recent redevelopments in the Zhongshan Avenue Districts, a large historical district in the Hankou area of Wuhan. For the City of Bodø the UPAT team offered their expertise in the development of the new airport and how this development can contribute to become a leading and smart city.

The UPAT Seminar will take 90 minutes, starting of with an introduction of +10 years of UPAT workshops and continues with the results of the two 2017 UPAT workshops. The two UPAT teams present and share the outcomes of the 25th UPAT workshop in Wuhan, China, and the 26th UPAT workshop in Bodø, Norway.

A discussion and the introductions of the 2018 UPAT workshops that ISOCARP has in preparation will conclude the UPAT Seminar. The outgoing and incoming ISOCARP Vice Presidents UPATs (Martin Dubbeling 2011-2017 and Milena Ivkovic 2017-2020) will host and moderate the UPAT Seminar.

Session 8: What can we learn from Portland's urban economy?

27 October (Friday) 14:00-15:30

Moderator: Jan ZAMAN, Regional government of Flanders, Brussels, Belgium

Starting with the importance of a flourishing urban economy, the debate addresses the following questions: what does the urban economy in Portland look like? how important is it to walk through the city, to see and feel its economy and industry? - can you get a fair idea about the urban economy of a city without knowing the full history and statistics?



Track 4: Resilience, adaptation and disaster mitigation

Co-moderator for Sessions 1 & 6:  
Drew DeVitis  
Co-moderator for Sessions 2 & 4:  
Amanda Ferguson



by Hidehiko Kanegae, Japan

The international disasters database (EM-DAT: Centre for Research on the Epidemiology of Disasters (CRED), University Catholique de Louvain, Brussels, Belgium), which reported less than 50 natural hazard events in the early 20th century, increasing exponentially toward the end of the century, has now predicted over 10 times more that number of natural disasters in the 21st century in its "World trend of natural disasters 1900 – 2010". United Nations Office for Disaster Risk Reduction (UNISDR) also stated in the Global Assessment Report on Disaster Risk Reduction 2015, "Global economic losses from disasters up to \$300 billion every year, calling for higher investment in risk reduction strategies." UN Secretary-General warned: "World threatened by dangerous and unacceptable levels of risk from disasters". 2014 Revision of World Urbanization Prospects reported that globally, more people live in urban areas than in rural areas, with 54 per cent of the world's population residing in urban areas in 2014. In 1950, 30% of the

world's population was urban; whereas by 2050, 66% of the world's population is projected to live in urban areas.

In the 21st Century, our cities are facing higher risks and threats than ever before. How can we survive under huge impacts of natural disasters in this era of rapid mega-urbanization? By way of mitigation, adaptation, making cities resilient? USISDR first initiated the Hyogo Framework for Action 2005-2015: Building the Resilience of Nations and Communities to Disasters (HFA) and then continued to setup The Sendai Framework for Disaster Risk Reduction 2015-2030 (Sendai Framework). The Sendai Framework is the first major agreement of the post-2015 development agenda, with seven targets and four priorities for action adopted as the "UNISDR's Strategic Framework 2016-2021."

This Track covers multiple aspects and scopes of hazards, vulnerability, and risks of natural

disasters, as well as methods for increasing resiliency and community preparedness to extreme natural phenomena, (i.e. volcanic impacts, lava & pyroclastic flow, earthquake, fire & tsunami, hurricane/typhoon/tropical storm/heavy rain/flash/ flood & landslides, hydrological hazard & storm-surge/tidal-wave, winter storm/blizzard, climatological/ meteorological disasters).

Track 5 focuses on the following topics:

- Mitigation and adaptation on climate changes
- Hydrological vulnerabilities
- Strategic planning for climate change
- Natural disaster mitigation
- Resilience theory, problems and practices
- Sustainable & resilient communities
- Long-term Resilient Community
- Strategies including natural disaster and climate changes beyond disaster mitigation.



Session 1: Mitigation and adaptation on climate changes - Strategic planning for climate change  
25 October (Wednesday) 11:00-12:30

Qing YUAN, Tingting YU, China, Harbin Institute of Technology, Harbin, China; Kevin WALSH, Craig NITSCHKE, The University of Melbourne, Australia  
**Spatial modeling for landscape vulnerability assessment with climate change through TACA and GIS in Heilongjiang, China**  
In this paper, by using mathematical methods we focus on the correlation research of public space preference and residents' personal characteristics on the scale of northeast small towns in China.

Aliu OGUNFOWORA, Masterplan Consult Ltd, Lagos, Nigeria  
**Effects of climate change on Lagos coastal communities**  
Climate change has been an issue that has drawn back the growth and development of communities in Lagos and Nigeria at large. If communities must be smart, therefore a mitigation process must be in place to enhance growth and development.

Lena NIEL, OTTER, Deltares, Utrecht, Netherlands  
**Adaptation support tool for implementing the New Urban Agenda in cities**  
This paper introduces an ecosystem based approach using the Adaptation Support Tool to help implement the New Urban Agenda on a local level. It demonstrates the effectiveness of nature-based solutions for increasing urban resilience, by showing where and how these solutions can be integrated in urban plans.

Mahak AGRAWAL, SPA Delhi, Delhi, India  
**Climate resilient urban development strategies for a Mega city: A case of NCT of Delhi**  
Climate change is an acid bath. Recently, onus of discourse has shifted from global to urban level for two reasons. First, they account for over 70% of global greenhouse gas emissions. Second, they house over 50% the global population. Hence, cities are both victims and prime reason for climate change.

Session 2: Hydrological vulnerabilities  
25 October (Wednesday) 14:00-15:30

Michael DOYLE, Swiss Federal Institute of Technology, Lausanne, Switzerland  
**Urban underground potential in Dakar, Senegal: reversing the paradigm of 'needs to resources'**  
In response to urban planning's tendency to consider underground resource potential in a sectorial and needs-based manner, this paper presents a mapping method for evaluating multi-use urban underground potential and examines the underground potential of Dakar, Senegal, a city with a complicated relationship to its underground.

Mao FENG, Wanmin ZHAO, Chongqing University, Chongqing, China; Tao ZHANG, Tongji University, Shanghai, China  
**Research on green infrastructure construction in mountainous watershed cities**  
This paper based on full consideration landscape features in mountainous watershed cities, using landscape ecology theory,through the method of hydrology and minimum cumulative resistance analysis,taking Guangyuan city of Sichuan province in China as an example,put forward the planning path and framework of green infrastructure construction in mountainous watershed cities.

Tao ZHANG, Tongji University, Shanghai, China; Mao FENG, Chongqing University, Chongqing, China  
**The research on multi-scale urban flood control and storm drainage based on economical security of river basin**  
This paper presents a "basin-city-field" multi-scale flood control and drainage planning and management mode based on ecological security. Besides, overall and small watershed system and the changing process thereof are regarded as the basic research unit in this paper, which breaks the traditional way of dividing research units.

Pedro GARCIA, LEAU - CICANT, Lisbon, Portugal  
**Urban waterfront in symbiosis with nature**  
The research focus on urban waterfronts solutions that implement soft ways of dealing with territories challenged by climate change; retaining functions or transforming infrastructures. The selected case

studies contribute for a stronger improved city that reaches long term strategies in symbiosis with nature.

Session 4: Natural disaster mitigation  
26 October (Thursday) 11:00-12:30

Paola RIZZI, Luana DI LUDOVICO, Federico D'ASCANIO, University of L'Aquila, L'Aquila, Italy  
**From fragile to resilient territories. The reconstruction after earthquake in central Italy**  
To decrease vulnerability and to increase resilience is a shared worldwide issue, but there are some features and peculiarities of Italy (namely the average of historical heritages and landscapes) that are going to effect the efficiency of actions and strategies that require a shared Strategic Agenda among the public and private domains.

Connie OZAWA, Portland State University, Portland, USA; Sanda KAUFMAN, Cleveland State University, Cleveland, USA; Deborah SHMUELI, University of Haifa, Haifa, Israel  
**Mining collaborative planning for disaster preparedness and response**  
Natural and technological hazards have consequences of a scale and severity far exceeding most human experience. The literature stresses the importance of community involvement before, during and after disaster. This paper brings collaborative planning principles to disaster management to build community resilience in the face of uncertain, future calamitous events.

Colin ROWAN, Levee Ready Columbia, Portland, USA  
**Special purpose district woes, state land use goals, and land behind levees in Oregon**  
This presentation explores development in leveed areas from the perspective of land use planning and statutory authority in Oregon. The presenter will explore issues faced by special districts, the interplay between various agencies in comprehensive planning, and the limitations of statutory and regulatory authority confronted by levee operators.

Resilience theory, problems and practices

Chao MA, Shanchao WANG, Lijian REN, Yingxia YUN, Tianjin University, Tianjin, China  
**Strategy research of improving city resilience in urban comprehensive disaster prevention and reduction**  
We summarized the promoting of community resilience in disaster prevention and reduction planning, and improvements for executing such plans by enhancing community resilience. We propose enhancing post-disaster community resilience in several ways.

Session 5: Central city scenic resources protection plan  
26 October (Thursday) 14:00-15:30

Moderator: Mindy BROOKS, City of Portland, Portland, USA  
Speaker: Neil LOEHLEIN, City of Portland, Portland, USA  
As part of the Central City 2035 Plan, scenic resources, such as views of Mt Hood, are proposed for protection. These protections are necessary to maintain the icon views and scenic quality of Portland.

Session 6: Sustainable and resilient communities  
26 October (Thursday) 16:00-17:30

Jacob KALMAKOFF, UN-Habitat, Nairobi, Kenya  
**Mis-Romanticism of intermediary cities and participation? The case of Moroni**  
Participatory planning, community engagement and public consultations are mandatory parts of many planning processes. Both vulnerable to the effects of climate change while relatively self-sustaining, smaller communities may hold the key for better resilience strategies. Can effective participation in resilience planning be a solution for areas of low capacity?

Tzu-Ling CHEN, Hsueh-Sheng CHANG, NCKU, Tainan City, Taiwan  
**Increase resilience in right community under potential earthquake risk**  
The study provides a new perspective on disaster mitigation management by considering earthquake disaster probability, governmental preparedness and earthquake risk perceptions to increase resilience in right community under potential earthquake risk.

Yang DENG, Beijing Forestry University, Beijing, China  
**The exploration on the ecological ways of traditional Chinese settlement construction**  
The characteristics of water resources in different regions of China vary considerably. Water resource is an important factor influencing the settlement pattern. From the perspective of ecology, harmonious coexistence of water environment and settlement is the basis of sustainable development. The traditional settlement can be described as genuine "wisdom community".

Raina SINGH, The Energy and Resources Institute, New Delhi, India  
**Role of ICT based tools for building climate resilient infrastructure services - Panaji and Visakhapatnam, India**  
This paper looks at climate resilience planning efforts in two Indian coastal cities-Panaji and Visakhapatnam. The paper discusses the role of an ICT based approach for building climate resilient infrastructure services in these cities and explores its potential as a planning and decision making tool for achieving SDG 11.

Session 7: Strengthening the disaster resilience of academic research communities  
27 October (Friday) 11:00-12:30

Moderator: Kirk PAWLOWSKI, ESD 112's Construction Services Group (CSG), Vancouver, Washington, USA  
Speakers: Lisa BROWN, National Academy of Science, Engineering and Medicine, Washington DC; Andre LEDUC, University of Oregon, USA  
Members of the US National Academies of Sciences, Engineering, and Medicine Committee on "Strengthening the Disaster Resilience of Academic Research Communities," will share the Committee's recommendations to support disaster response and recovery planning, the development of a more resilient built environment, and the capital financial considerations in funding resilient communities.

Session 8: Digital innovations in urban planning and design from a global perspective  
27 October (Friday) 14:00-15:30

UN Habitat, Ericsson Research, Johannesburg Development Agency, Arcadis  
Speakers: Pontus WESTERBERG, UN-Habitat, Kenya; Bert SMOLDERS, Arcadis, Netherlands; Joakim FORMO, Ericsson Strategic Design, Norway; Xolisile SITHOLE, Johannesburg Development Agency, South Africa  
Digital technologies are becoming increasingly important in urban development and management. Ubiquitous sensor networks, digital data and urban dashboards, as well as data accessibility, privacy and accountability are becoming common concepts as part of urban development worldwide. Smart technology is resulting in radical transformation of cities in many areas, including in the field of city and regional planning.  
In this session, UN-Habitat, Ericsson Strategic Design, Arcadis and the Johannesburg Development Agency will present recent explorations into the use of 'mixed reality' – a mix of virtual and augmented reality – for visualisation and community participation processes in urban planning and design. Building on UN-Habitat, Mojang and Microsoft's innovative Block by Block programme, which uses Minecraft as a community participation tool in urban design, the project partners were able to successfully use a mixed reality platform to visualise co-created 3D designs of a public space in Johannesburg, South Africa.





by Xiaohui Chen, China

Throughout history emerging technologies have driven major shifts in the way cities and their societies have been planned and functioned. Today, with the development of artificial intelligence, the internet, autonomous vehicles, virtual reality, and quantum computing, we find ourselves again on the brink of a new urban transition.

It is argued that the onset of high technology will dramatically transform our countryside landscape. The technology of highways and the internet of things are uniting the scattered small rural communities into a vast connected network, linking tightly to their adjacent urban areas. The vertical hierarchical agriculture marketing system is broken, shifted into a flat one of C2C, and the distant-oriented culture

recognition of village being changed into character-oriented. So village communities of special recourses such as distinct features or agriculture productions will gain more opportunities than the past, when only those near big cities or important ports developing more. However, the hot spot of rural areas driven by high-tech getting more capital from cities are becoming landscape homogeneity and getting social dismembered. How to benefit the rural community members and preserve their culture heritage are urgent issues for urban planners.

It is therefore worthwhile taking a moment to ponder this immediate transition, considering exactly what kinds of shifts small communities are experiencing and how, unlike previous

transitions, our urban and rural human settlements can collectively and individually ensure that the benefits are based upon and shared among all people. Under the umbrella topic of Smart Communities, this track of conference aims to facilitate a better understanding of the effects and challenges of the cumulative growth of contemporary urban technologies within the communities and planning sectors.

### 1. Lighting up the Discovery Corridor – the Port of Ridgefield's dark fiber optics infrastructure

The City of Ridgefield is one of the fastest growing cities in the state of Washington. However, Ridgefield is lacking a robust fiber-optic system. The Port of Ridgefield

is proposing to invest in dark fiber-optic infrastructure to promote world-class, high performance economic development in southwest Washington's Discovery Corridor.

### 2. Smart Communities

With the help of science and technology, smart communities can not only improve the quality of our lives, but also bring new opportunities for the development of cities and rural areas as well. In this context, how to planning a more eco and liveable village in the traditional agriculture area? How to achieve smart placemaking by using innovative approach? How can we better use the applications and tools to plan smarter local communities? How to resolve rural-urban crisis by adopting the appropriate technology? What are the practical way do smart community benefit residents? To answer these questions, we need to look world widely, where the smart communities are bringing great opportunities to these places, so as to seek for some inspirations.

### 3. Technology and society

New information and communication technologies are increasingly present in the functioning and management of cities. As a result, access to information and technology is becoming increasingly important for the communities. For rural area and poor communities, the lack of access to information and technology will be a huge disadvantage. Meanwhile, in urban areas, the establishment of spatial technological infrastructure is also crucial for urban planning. Furthermore, with the support of data analysis, quality of residential public space for social behaviour is providing an effective decision reference for

increasing social interaction and community bonding.

### 4. Online interactive mapping: Tips and tools for small communities

Many planners in the Portland region are aware of the City of Portland's "map app", an online interactive map developed as part of outreach for the City's update to the Comprehensive Plan. But what options are available to a smaller jurisdiction without experienced programmers and advanced software licenses? And, beyond developing an online tool, what are the best ways to successfully integrate web-based maps and spatial information into a broader outreach program? This panel session will feature speakers from the City of Portland as well as smaller jurisdictions who have experience building and using online interactive maps to present and obtain information as part of a public outreach strategy.

### 5. Technology and small communities

Technology has boosted the emergence of new economy. We witnessed technology brings new opportunities for the development of small scale industries which effectively promoting the poverty reduction. We also witnessed the new entrepreneurial model is constantly derived at the community level. Technology reinforces the interactions among small communities, thereby exacerbating the interflow of information between urban and rural areas. Furthermore, technology has also effectively promoted the smart transformation of traditional housing and helped to achieve

social integration in historical cities, which brought more possibilities to forming a modern neighbourhood.

### 6. Technology and big data

Data is expanding our horizon. The advancement of technology and rising ration of big data usage is changing the data acquisition and analysis tools in urban planning, not only increasing the possibility of citizen engagement in decision making processes, but also offering the universal tools to plan for urban planning. With new information at the disposal of planners, how to make technology and big data become effective planning and analysis tools? How to use new technology approaches to obtain user friendly data in smart community and transportation planning? Furthermore, how does technology help in participatory planning, community engagement and public consultations?

### 7. Improving multi-agency program transparency and accountability via a scalable, performance measure tracking web platform

The Lake Tahoe Environment Improvement Program (EIP) is a partnership of over 50 different federal, state and local agencies, private interests, and the Washoe Tribe. The Tahoe Regional Planning Agency worked with Sitka Technology Group to build an online platform to coordinate data collection, increase transparency, and showcase progress success.

### Session 1: Improving multi-agency program transparency and accountability via a scalable web platform for performance measure tracking

25 October (Wednesday) 11:00-12:30

Moderator: Matt DENISTON, Sitka Technology Group, Portland, USA  
Speakers: John BURNS, Sitka Technology Group, Portland, USA; Jeanne MCNAMARA, Tahoe Regional Planning Agency, Stateline, USA; Brittany JENSEN, Gold Ridge Resource Conservation District, USA

The Lake Tahoe Environmental Improvement Program Project Tracker website has been instrumental in improving data coordination, increasing transparency, and showcasing progress as it tracks \$2 billion in funding and more than 700 cross-agency projects. Learn more about this industry-leading, open-source platform and how other organizations are leveraging it.

### Session 2: Smart communities

25 October (Wednesday) 14:00-15:30

Xiong GUOPING, Southeast University, Nanjing, China  
Study on the eco-village planning in Yangtze River Delta  
The presentation is about technology and small communities.

Sadije KELMENDI, Lumniqe GASHI-SHABANI, Artnet HASKUKA, Drita NUSHI, Aida DOBRUNA, Rudina QERIMI, Shkelqim DACI, Kosovo Center for Urban Research PRO-Planning, Pristina, Kosovo

### Smart placemaking in the newest country of Europe

A paper that presents the outcomes of an innovative approach for placemaking in Kosovo, a country with the youngest population in Europe, developed with high school and university students of the capital city of Prishtina and rural Gracanica, through emotional mapping with geoblog mobile app and website.

Slawomir LEDWON, Ministry of Municipality and Environment, Doha, Qatar

### Smart(er) local communities

This paper is a critical assessment of how modern tools influence the way local communities are organised and interact. Although in the shown examples most of interactions are virtual, the leading common aspect is locality. Nowadays it is crucial to understand how these can help to build stronger local communities.

Yizhou ZHAO, Lian LU, Dikang DU, Tsinghua University, Beijing, China

### A data guide smart-transformation of traditional housing in urban context. The case study of Sandaoguai traditional community in China

This paper proposes a valuable direction of smart communities: a data guide smart-transformation traditional housing in urban context, based on the case study of Sandaoguai traditional community in China.



Taru JAIN; Rose GEOFFREY; Marilyn JOHNSON, Monash University , MALVERN EAST, Australia

**Local Government Policy in Response to Car sharing Innovation-Case of Melbourne ‘the most liveable city’**

The study aims to understand local policy response to an increasing demand for shared cars in Melbourne. An online survey will be used to explore key challenges faced by the councils in adopting car sharing in their local government area.

**Session 3: Technology and society**

25 October (Wednesday) 16:00-17:30

Umar JIMOH, Ayodeji OBAYOMI, University of Ibadan, Ibadan, Nigeria

**Challenges of integrating rural community into teletopia world: the case of Gbedun and Alabidun Village of Ona-Ara LGA, Nigeria**  
Urban infrastructural building has remained the planning focus with a share neglect of the rural area despite the symbiotic relationship that exists among them particularly in Nigeria. Adoption of ‘teletopia’ in planning helps in integrating the two sectors which will enhance the quality performance and interactivity of urban service delivery.

Maryam HUSSAIN, Yasser HAMAM, Qatar National Master Plan, Doha, Qatar

**The role of spatial technology in shaping Qatar’s urban future**

The paper illustrates the main features of the spatial technological approach with advanced spatial analytical techniques used in Qatar and how it is assisting the generation of Qatar National Master Plan (QNMP).

**Technology and big data**

Michele MELCHIORRI, Urban Habitat Lab, Domodossola, Italy

**Analyzing urban and rural settlements with remote sensing: comparing national trends of rural growth with the global human settlement layer**

Geospatial data have become a resource for territorial analysis and a need for policymaking. This study relies on the Global Human Settlements Layer (produced at the European Commission Joint Research Centre) baseline data to analyze at national level the growth of rural settlements in terms of population and built-up areas.

Xin TONG; Yaowu WANG; Qingfeng ZHOU, Shenzhen Graduate School, Shenzhen, China

**Relationship of transit-oriented development communities factors based on point of interest and metro ridership data – a case study of Shenzhen**

By using POI data from GaoDe map and smart IC card records from metro stations, this paper analyzes the density, diversity and transit ridership ratio around 118 TOD stations in Shen Zhen, China. It discusses the relationships among those factors and finds the most influential factor that affects ridership.

Ellen CURRIER, Lane Council of Governments, Eugene, USA

**Creating user friendly transportation data**

Transportation data can be inaccessible and difficult to access even for planning staff. To address this issue, Central Lane Metropolitan Planning Organization created an user friendly data portal using the Tableau software package that allows for simple sharing of data and workbook visualization schemes with citizens and partner agencies.

**Session 4: Sustainable Development Goals**

26 October (Thursday) 11:00-12:30

*Moderator: Tim VAN EPP, AICP, Chair of the APA International Division*

*Speakers: Tim VAN EPP, AICP, Chair of the APA International Division, USA; Shipra NARANG SURI, ISOCARP's Vice-President, Technical Assistance/ projects, and Coordinator, Urban Planning and Design Branch, UN-Habitat, Kenya/ India; Greg SCRUGGS, AICP, Senior Correspondent for CitiScope, USA; Andrew POTTS, Nixon Peabody LP, USA*

The APA International Division is sponsoring this session exploring implementation of the UN's Sustainable Development Goals (SDGs) and New Urban Agenda (NUA), including the roles and approaches of the UN, APA, ISOCARP, ICOMOS and, in particular, US cities.

Tim Van Epp, AICP, Chair of the APA International Division, will moderate and provide a general overview of the SDGs and NUA as well as APA's roles and activities in facilitating their implementation. Shipra Narang Suri, ISOCARP's Vice-President, Technical Assistance/ projects, and Coordinator, Urban Planning and Design Branch, UN-Habitat, will provide an updated overview of the UN's implementation of the SDGs and NUA, as well as UN initiatives to mainstream and consolidate its urban functions and implications for SDGs and NUA. Greg Scruggs, AICP, Senior Correspondent for CitiScope, will talk about SDGs implementation by US cities, including a project to pilot them in Baltimore, Maryland, New York City and San Jose, California. Andrew Potts, Partner, Nixon Peabody LLP, will talk for ICOMOS about global efforts to leverage cultural heritage for resilience, and to localize and measure SDG Goal 11 and the 6 heritage-related NUA provisions.

**Session 5: Online interactive mapping: Tips & tools for small communities**

26 October (Thursday) 14:00-15:30

*Moderator: Rebecca HEWITT, Angelo Planning Group, Portland, USA*

*Speakers: Marty STOCKTON, City of Portland, USA; Kalin SCHMOLDT; JLA Public Involvement; Matt HUGHART, Kittelson Associates; Kyra SCHNEIDER, Angelo Planning Group, USA*

Learn from the experience of planners who have who have experience building and using online interactive maps to present and obtain information as part of public outreach for planning projects. Come be inspired and learn best practices for how to use these tools in your own community.

**Session 6: Neighborhoods, parks, and food access- Creative approaches to community outreach in Salem, OR**

26 October (Thursday) 16:00-17:30

*Moderator: Lisa ANDERSON-OGILVIE, Deputy Community Development, City of Salem, USA*

*Speakers: Eunice KIM, NESCA; Annie GORSKI; Toni WHITLER, City of Salem, USA*

Plans and public outreach guide our work in Salem. Hear three case studies that highlight creative approaches to community outreach. We will discuss outreach that went beyond traditional methods to help shape planning for three projects: a parks master plan, urban renewal strategic plan and food study, and neighborhood plan.

**Session 7: Lighting up the discovery corridor – the port of Ridgefield's dark fiber optics infrastructure**

27 October (Friday) 11:00-12:30

*Moderator: Scott KELLOR, BergerABAM, Vancouver, Washington, USA*

*Speakers: Nelson HOLMBERG, Port of Ridgefield, Ridgefield, USA; Mike BOMAR, Columbia River Economic Development Council, USA; Jeff NITEN, City of Ridgefield, USA; Melissa ULAND, BergerABAM, Vancouver, USA*

The Port of Ridgefield is proposing to invest in dark fiber-optic infrastructure to promote world-class, high performance economic development in Southwest Washington's Discovery Corridor.

**Session 8: Track 2 continued...**

# Track 6: Post-smart communities and the new frontiers



by Zaheer Allam, Mauritius

Cities are witnessing an increasing rate of densification and expansion, coupled with a flow of transient movement. Indeed, globalisation has brought an increasing dependency on transportation, whether through cars, buses, light rail, or aeroplanes, rendering our cities as a platform for hosting business, commerce, and other activities. Such a busy environment brought its fair share of challenges in regards to traffic, energy, water, waste, and the other components that contribute to the functioning of the city.

With the advent of internet connectivity and with the increasing knowledge of the causes of climate change, various communities adopted various ‘smart’ and innovative solutions to tackle such issues to better achieve a sustainable and resilient urban fabric.

However, with the increasing technological progress, and the effect of Moore's law on pricing, new models are emerging to better tackle finance, governance, movement flows, business, commerce and others. The city witnesses a change in policies as it re-invents the way it functions. Various components, invisible decades ago, come into play in the form of big data, new technologies and techniques and cross-disciplinary measures through science and urban planning.

This emerging novel way, and cross disciplinary approach, to view cities gives rise to new ways to view;

- Technology and big data
- Planning and governance
- People and society
- Future urban economics
- Cities of the future.

This track dwells into the transition of cities in adopting new techniques for management, design and planning, and showcases emerging trends and share findings to better channel resources to address contextual challenges.

**1. Technology and big data**

As we enter a connected world; we embrace big data. Through those connections, we find at our disposal extremely large data sets that may reveal patterns and trends. With new information at the disposal of planners, how can those be used to better plan for the community? Furthermore, as we are witnessing the global adoption of mobile phones, data from mobile phones can depict an accurate understanding of transient flows and crowd representation. We also witness the inclusion of smart energy mapping tools and its influence on design and planning. We further understand the relationship between mobile devices, planning, utilities, urban space and local democracy.

**2. Planning and governance**

We witnessed an increasing flow of migratory flux to cities over the past decades, stressing on existing resources, wealth and jobs distribution and influencing its societal, environmental, economic and political fabric. Against this backdrop, how can we turn challenged neighbourhoods into smart neighbourhoods? How is urbanisation affecting rural areas? What are the regulations to take into account while planning eco-cities? Dwelling further, design decisions and implementation phases can be challenging from a professional, societal, and legal standpoint. What kind of planning tools are at our disposal and what kind of platform could be proposed to address those challenges for planning professionals? How can data influence design planning and urban space management?

**3. People and society**

As various cities around the world brand themselves as ‘Smart’ by adopting easy and ‘plug and play’ scenarios, the question arises; what is really a smart city, and what conceptual promises do they hold in regards to contemporary cities? Engaging with new technologies and easy data manipulation and the holistic planning perspectives can help researchers, planners and other professionals

view the city in an entirely new way. New tools, forums, and platforms emerges that can better showcase planning from a multidisciplinary perspective. Emerging concepts, frameworks, policies and planning ideas include green and cultural elements in masterplanning. The case of the Green loop in Portland ponders on the subject matter. Moreover, new technologies also highlights the need for constant learning and adaptation, as resistance to change in a fast paced world can often lead to a heavy societal cost. In this regards, as we rush towards adopting new technologies and automation, are we running towards unemployment?

**4. Future urban economics**

Since the advent of ‘Au Bon Marche’, the first shopping centre in France, efforts in design has shown exponential growth to influencing design decisions for the shopfront, façade, interiors and even more. We also acknowledge the increasing use of vehicular transportation and its impact on both economy and environment. An increasing trend of automated vehicles is seen on the rise and questions are raised about its negative impacts. As we further this discussion and dwell into the new technologies that are at our disposal and those that are yet to come, we asks ourselves; How will the future of retail expand to affect our urban morphology, and how can we mitigate the negative impacts of automated vehicles?

**5. Cities of the future**

The sharing economy, e-commerce and autonomous vehicles are influencing urban planning decisions, and movement flows within the urban fabric. As new technologies influence the way we move in and across cities, they ultimately reflect on the external picture of city management, revenue and politics. What are the existing frameworks that may respond to those emerging technologies while catering to the societal needs for liveable cities? Moreover, with the advent of urbanisation and its stress on the urban fringe, how do we preserve the rural identity?



Session 1: Made in China

25 October (Wednesday) 11:00-12:30

*Moderator: Martin DUBBELING and Milena Ivkovic, ISOCARP Vice-Presidents*  
China is planning to build 285 eco cities across the country in order to become the world’s leading power in sustainability, urban water management, and green energy. This policy marks China’s new approach to transform China’s cities in green and sustainable urban areas. The “Made in China” session explores the State of the Art in China’s rapid urban development.

Session 2: Cities leading through energy analysis & planning

25 October (Wednesday) 14:00-15:30

*Moderator: Kale ROBERTS, ICLEI-Local Governments for Sustainability, USA*  
*Speakers: Kale ROBERTS & Andrea MARTIN, Cascadia Consulting Group Seattle, USA*

The U.S. Department of Energy Cities Leading through Energy Analysis and Planning (C-LEAP) project enhances municipal GHG inventory practice by creating methods and tools to attribute changes between inventories to the impacts of policies and programs along with other external drivers, such as economic activity and weather.

Session 3: 10 Years of ISOCARP Awards

25 October (Wednesday) 16:00-17:30

*Moderator: Martin DUBBELING, ISOCARP Vice President*  
In 2017 ISOCARP celebrates 10 successful editions of the ISOCARP Awards for Excellence. The ISOCARP Awards for Excellence are conferred in recognition of exceptionally innovative urban and regional initiatives. These Awards were created in 2005 as the highest honour that the International Society of City and Regional Planners can award to a city, region or an institution. Until 2017 ISOCARP has acknowledged 43 cities, regions of institutions with the ISOCARP Awards for Excellence in 10 editions between 2005 and 2016. Amongst the laureates are the cities of Nanjing, Durban, Wuhan, Amsterdam, Bilbao, Singapore, Antwerp, Abu Dhabi, Brussels and Ottawa.  
ISOCARP has invited 10 laureates of the past editions Awards for Excellence to present their award winning cities and projects. The ISOCARP Awards Seminar will take 90 minutes, starting off with an introduction and overview of the 10 past editions of the ISOCARP Awards of Excellence and continues with 10 pitches of projects and cities from 5 regions (North America, Europe, Middle East, Africa and Asia) that won the ISOCARP Awards for Excellence between 2005 and 2017. ISOCARP past president Alfonso Vegara (2003-2006), the initiator of the Awards for Excellence, and ISOCARP president-elect Martin Dubbeling (2017-2018) - representing Ana Peric, Vice President Awards and Communication - will host and moderate the Awards Seminar.

1. Cato Manor Redevelopment, Durban (2005)
2. Spatial Structure Plan, Antwerp (2008), Park Spoor Noord, Antwerp (2015)
3. Strategic Planning Guangzhou City (2010)
4. Rahat Bedouin City, Israel (2011)
5. Strategic Development Plan, Shantou (2012)
6. Xiangshan Harbor, Ningbo (2014)
7. Canal Zone Project, Ghent (2015)
8. Luhe City Center, Nanjing (2015)
9. ZIBI Redevelopment, Ottawa (2016)
10. Canal Zone Project, Brussels (2016)

Session 4: Planning and governance

26 October (Thursday) 11:00-12:30

*SKL International, Sweden - Paul DIXELIUS, Development Director at SKL International; Helena OHLSSON, Urban Specialist at the SymbioCity Secretariat*

The SymbioCity Approach

The SymbioCity Approach is used as a practical instrument to implement the New Urban Agenda in developing countries. This process for multidisciplinary, holistic and integrated sustainable development consist of various tools for e.g. analyses, evaluation, public participation and gender-sensitive planning to enable improved quality of life for all citizens. This process guides local governments to bridge the gap between sectors and stakeholders and turning challenges into opportunities.

Technology & big data

*Dorota KAMROWSKA-ZALUSKA; Hanna OBRACHT-PRONDZYNSKA, Gdansk University of Technology, Gdansk, Poland; Emanuele NABONI, The Royal Danish Academy of Fine Arts Schools of Architecture, Design and Conservation, Denmark*

Big Data as opportunity to enhance design sustainability

The aim of this presentation is to show the possibility of using Big Data based instruments to support restorative design. The proposed research is conducted in the framework of COST Action RESTORE Rethinking sustainability toward a regenerative economy aiming to advocate, mentor and influence restorative built environment.

Session 5: People and society

26 October (Thursday) 14:00-15:30

*Ali ALRAOUF, Abdulla AL-KARRANI, Urban Planning Section, Doha, Qatar*  
**Smart, resilient or just communities: interrogating the urbanity of contemporary Qatari and Gulf Cities**

The paper aims to revise the authenticity of smart cities conceptual premises and the future of contemporary cities. The paper conducts a number of comparative analyses and provides cases from the regional and international context to argue for a more holistic understanding of the swiftly emerging concept “Smart City”.

*Stephen GOLDIE, Abu Dhabi Department of Planning & Municipalities, Abu Dhabi, UAE*

The jobless city - revolution or paradise?

The 4th Industrial Revolution is changing the nature of work. Around 80% of existing jobs will be automated. If these are not replaced by new, as yet unthought-of of work, then there are only two possible futures: revolution or paradise. How will we plan and build the jobless city?

Future urban economics

*Slawomir LEDWON, Ministry of Municipality and Environment, Doha, Qatar*  
**Future smart retail: urban, virtual or both?**

The paper presents various aspects of technologies used in retailing and how they impact the way customers shop nowadays, and will probably do in the future. It discusses the possible future scenarios of changing the built form of cities to incorporate these changes.

*Alexis BIDDLE, DKS Associates, Portland, USA*

Avoiding the nightmare: how a dynamic VMT tax for automated vehicles can achieve public policy goals

This paper explores the possibility of implementing a dynamic Vehicle Miles Traveled Tax to mitigate negative impacts of automated vehicles.

Session 6: Community engagement & the Portland Green Loop

26 October (Thursday) 16:00-17:30

*Moderator: Mark RAGGETT, City of Portland, Oregon, Bureau of Planning and Sustainability, Portland, USA*

*Speakers: Linda GINENTHAL, City of Portland, Oregon, Bureau of Transportation; Shelley MIDTHUN, Oregon Storyboard; Rachel CODDINGTON, Design Week Portland; Lora LILLARD, City of Portland, Oregon, Bureau of Planning and Sustainability, USA*

This session will explore the potential impact(s) of the Green Loop and what different community organizations have found compelling about the concept. City staff will describe the loop itself and followed by representatives from different organizations sharing how their work fits into the long term vision for the project.

Session 7: Track 2 continued...

Session 8: Urbanism next: how autonomous vehicles, the sharing economy & e-commerce will impact cities

27 October (Friday) 14:00-15:30

*Moderator: Becky STECKLER, University of Oregon, Eugene, USA*  
*Speakers: Nico LARCO, University of Oregon, USA; Benjamin CLARK, University of Oregon, Eugene, USA; Peter HURLEY, Portland Bureau of Transportation, USA; Andrew DICK, Oregon Department of Transportation, USA*

This session highlights a framework for examining the secondary impacts of Urbanism Next: how the sharing economy, e-commerce, and autonomous vehicles are changing land use, urban design and transportation within cities.





# Keynotes



Daniel S. Iacofano:

## Designing the Inclusive City: Neighborhood, City, Region

25 October  
9:00

Daniel Iacofano has more than 34 years of experience in urban planning and community design for downtowns, transit-oriented development, neighborhoods and urban centers. He is nationally recognized as an expert and innovator in the areas of community participation, consensus building and facilitation. Daniel's diverse projects have addressed transportation, housing, economic development, land use and regional growth. Daniel has worked in a wide range of communities from Downtown Los Angeles and Downtown Denver to Anchorage, Dallas and Washington, D.C. He is a leader in the national re:Streets effort, exploring the future of streets and what America's roadways would be like if they were designed for living, instead of just driving. He is the author of several books including Meeting of the Minds, The Inclusive City and the upcoming Streets Reconsidered: Inclusive Design for the Public Realm.

**Cities are back – in a big way – throughout North America.** People have moved in droves to the urban core, living in high-rise condos, funky lofts and hip streetcar neighborhoods. Exciting nightlife, retail, dining, culture and recreation are all redefining the urban experience, creating 24/7 environments that entertain, foster creativity and spark entrepreneurship.

**But there is a downside to this success.** Downtowns have quickly become playgrounds for the affluent and trendy. The middle and lower classes are getting squeezed out. Low-wage workers must now travel from great distances because landlords are doubling the rent on their formerly affordable apartments. This imbalance, if left unchecked, could irreversibly impact the overall health of our society and very security of the nation.

Daniel Iacofano will outline the great charge of the 21st century neighborhood, city and region. He will introduce the concept of inclusivity as the fundamental basis for creating truly great communities. He will illustrate how cities must be designed to address gentrification and support the physical, economic, environmental, cultural and social needs of people of all abilities, social strata and income levels. Daniel Iacofano will explore how to apply an inclusive policy framework in the areas of economic development, housing and neighborhoods, education, access and mobility, habitat protection, community facilities and cultural significance – **to ensure that our neighborhoods, cities and regions are fully inclusive, welcoming and thriving.**



Arun Jain is an urban designer and urban strategist with over three decades of international experience in practice, city leadership and academia. Based in Seattle, Washington, he advises public and private institutions engaging city and regional administrations, development companies, institutions, and foundations to improve cities and urban life. Arun has planned, designed, and directly influenced over 90 new private and public projects with a combined investment capital of over 14 billion US Dollars. He focuses on urban decision support tools, behavior sensitive infrastructure strategies, and development frameworks. Arun has contributed in several UN forums. Most recently he was invited by the UNODC (UN Office of Drugs and Crime) to discuss urban safety. Earlier he was UN policy unit expert for the UN Habitat III effort leading up to the New Urban Agenda declaration in Quito, Ecuador Habitat. Arun was also a lead expert in the UN Urban SDG development process (Goal 11). Arun has held academic positions in six universities. In 2016, he was a German Federal Government (DAAD) funded guest Professor at the Institute for City & Regional Planning (ISR), Technical University of Berlin. From 2003-09 Arun was Portland, Oregon's first Chief Urban Designer. In 2001, he led the creation of a national policy structure and a development suitability tool for the island country of Palau. Arun has served on several international boards, including the IFHP (International Federation of Housing and Planning) and ARUS (Advanced Research in Urban Systems), University of Duisburg-Essen, Germany. He has also been a strategic planning advisor to the Indian State Government of Karnataka (pop. 64 million). Arun received his professional Bachelor's degree in Architecture from the School of Planning & Architecture, New Delhi, India, and two Master's Degree's (City Planning & Architecture) from the then Urban Design Program, University of Pennsylvania, Philadelphia, USA.

Arun Jain:

## Beyond the Hype: Development Challenges for an Uncertain Future

26 October  
9:00

The world is going through a massive paradigm shift with no clarity on what our new equilibrium will be when all the dust settles. Rapid changes in technology, economies, governance, culture, society and climate are just some of the major disruptive forces. These changes are redefining the way we work, play, live, learn and consume. Often our responses only exaggerate the great ongoing shifts in equity, productivity, ownership, security and stability. Are we able to grasp the full extent of

these realities, or should we just plan to ride the storm? How adaptive and resilient can we be to man-made and environmental shocks? Is it even possible to pre-emptively plan and act?

This plenary will examine the various forces at play in which planning must find ways to make a positive difference. It will explore and suggest the various ways in which we can not only embrace growing complexity, but also, address uncertainty itself.



Earl Blumenauer:

27 October  
9:00

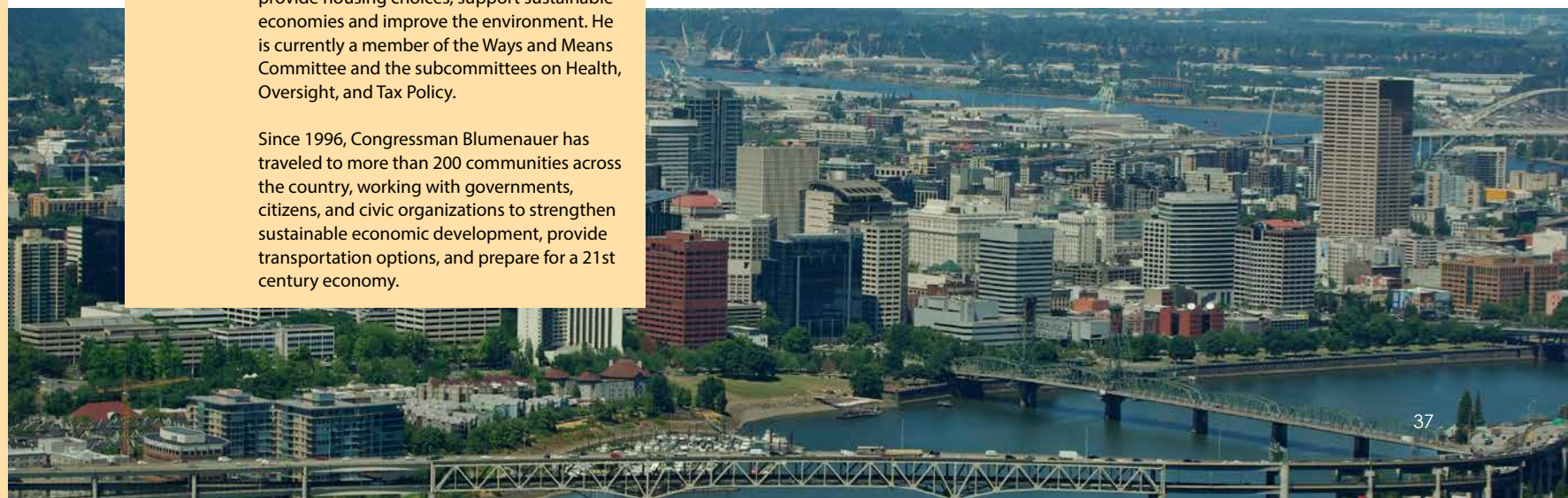
Congressman Earl Blumenauer has devoted his entire career to public service. Through his years as a local official in the Oregon Legislature, Multnomah County Commission, and on Portland's City Council, Blumenauer developed a national reputation for his advocacy on public transportation, land use planning, protection of the environment, and school funding.

Elected to the House of Representatives in 1996, Blumenauer has become a leading advocate for rebuilding and renewing America from repairing our nation's roads and bridges, to supporting biking, transit and pedestrian project investments. Blumenauer was a member of the Transportation and Infrastructure Committee until 2007, where he was a strong advocate for federal policies that address transportation alternatives, provide housing choices, support sustainable economies and improve the environment. He is currently a member of the Ways and Means Committee and the subcommittees on Health, Oversight, and Tax Policy.

Since 1996, Congressman Blumenauer has traveled to more than 200 communities across the country, working with governments, citizens, and civic organizations to strengthen sustainable economic development, provide transportation options, and prepare for a 21st century economy.

## Federal Update on Advancing Livable Communities

Congressman Earl Blumenauer (OR-03) will share insights on ways the federal government can be a better partner in building livable communities. The Congressman will provide a unique perspective on opportunities for infrastructure investment, strengthening disaster preparedness and mitigation, and advancing other policies to make our communities safer, healthier, and more economically secure.

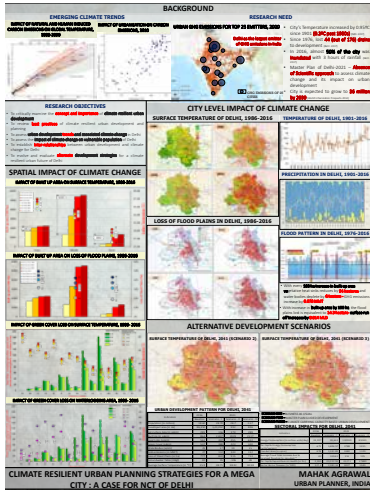




# Poster Presentations

26 October 10:30

Posters are exhibited during the whole conference in F Meeting Rooms.



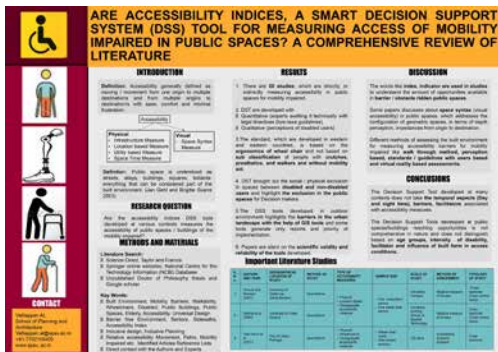
**Mahak Agrawal, IN**  
Climate resilient urban development strategies for a mega city: a case of NCT of Delhi



**Xiao Chen, Southeast University & Wang Xingping, CN**  
An inclusive study on the renewal of urban fringe area - a case study of the four villages in Hangzhou Shiqiao sub-district



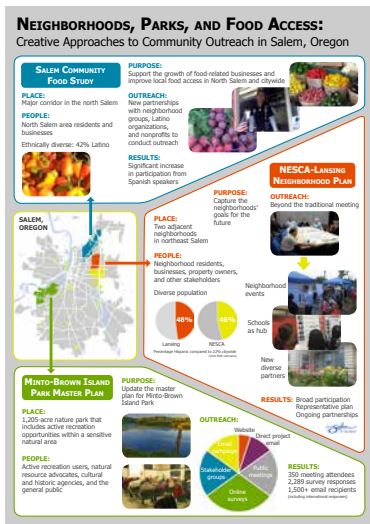
**Azad Hassan, Michigan State University, US**  
The impact of political stability and economic development on urban sustainability



**Valliappan Alagappan, School of Planning and Architecture Vijayawada, IN**  
Is accessibility indices a Smart Decision Support System (DSS) tool for measuring access of mobility impaired in public spaces?



**Pedro Garcia, Universidade Lusofona, PT**  
Reshaping Lisbon's waterfront



**Eunice Kim, City of Salem, US**  
Neighborhoods, parks, and food access – creative approaches to community outreach in Salem, Oregon



**Naomi Cole, EcoDistricts, US**  
EcoDistricts Certified: A New Standard for Community Development



**Don Hardy, Berger ABAM; Todd Horenstein, Vancouver Public Schools & Tim Cowan, LSW Architects, USA**  
iTech Preparatory School, embracing technology/ shaping the future of education



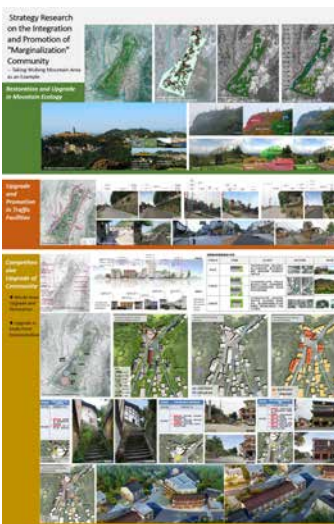
**Amy Koski, City of Milwaukie, US**  
Top 10 ways: jurisdictions can foster food cart pod development



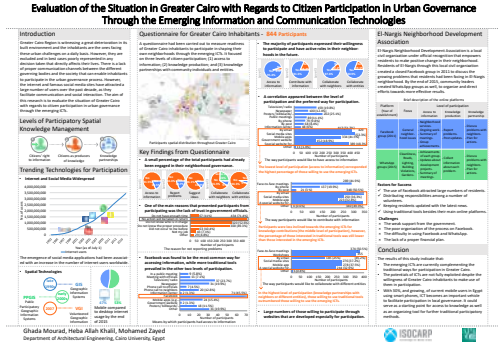
**Yi Liu, Harbin Institute of Technology; S. Zhang & T. Wang, CN**  
Study on the rationality of resource allocation in rural medical space based on spatial data analysis



**Jing Qiao, Hua Zhong University of Science & Technology & Hong Geng, CN**  
Research on the development path of inclusive rural communities in the context of pseudo counter-urbanization - taking Wuhan in China as an example



**Yun Yang & Hong Geng**  
Marginalization' community - taking Wufeng mountain area as an example



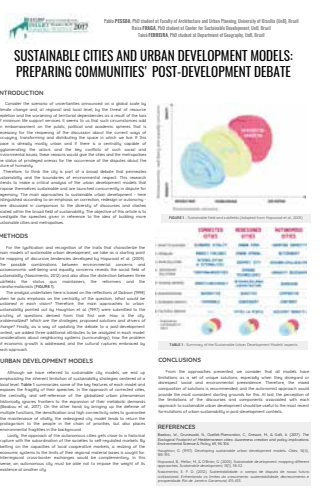
**Ghada Mourad, EG**  
Evaluation of the situation in greater Cairo with regards to citizen participation in urban governance through the emerging information and communication technologies



**Erpeng Shi, US & Hong Geng, CN**  
The influence of shared bicycle on the Chinese university community and the guidance of planning - a case study of Huazhong University of Science and Technology



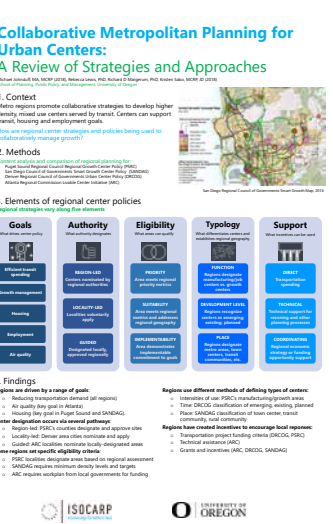
**Xiaomin Zhu, Tongji University, CN**  
Smart communities: the coexisting of the intelligent future and the intimate neighborhood past



**Pablo Pessoa, University of Brasilia, Raiza Fraga & Taina Ferreira, BR**  
Sustainable cities and urban development models: preparing communities' post-development debate



**Xiyue Wei, CN & Gengping Dai, CN**  
Planning and governance of urban fringe communities – creative exploration of Shenzhen



**Richard Margerum, Rebecca Lewis, Michael Johnduff & Kristen Sabo, University of Oregon, US**  
Collaborative metropolitan planning for urban centers: a review of strategies and approaches





# ISOCARP Programmes

26 October 9:00

ISOCARP brings together recognised and highly-qualified planners in an international network.

## ISOCARP Institute

In 2016 ISOCARP officially established the Institute as a "Centre of Urban Excellence" and formal body for generating, documenting and disseminating knowledge for better cities.

The Institute's core function is to design and deliver capacity building and continuing education programmes; conduct research and promote knowledge transfer; as well as offer advice and short-term consultancy services to government, nongovernment and international bodies worldwide.

## ISOCARP's Urban Advisory Teams

ISOCARP organises two to four Urban Planning Advisory Teams (UPATs) each year. The objective of a UPAT is to offer the extensive planning experience and expertise of ISOCARP members for international planning projects, programmes and policies. ISOCARP selects an international expert team visiting a city or a region for a week.

Together with the participants in the city this team develops simple, practical and original solutions that can improve the quality of life of people and communities in cities. Do you want to know more? Visit our website at <http://isocarp.org/upats/>.

## YPP – Young Planning Professionals

Ask any young planner who has participated in a YPP project, and they will tell you about discovering an exciting new place, experiencing a different planning context, joining a team drawn from around the world,

learning from senior practitioners, and working on real-world problems. ISOCARP's long-standing YPP program is recognised as offering outstanding opportunities for young planners.

Over a short period of 3-6 days, the YPPs work in closely-knit international teams, exchanging ideas and learning from each other. In this way, the workshops provide a synergetic platform where new ideas and creative solutions to complex and multifaceted urban issues are produced.

It includes a number of activities such as the annual YPP workshop (associated with the congress), YPP national or regional workshops (co-organised by partner organisations, such as local or regional governments or national planning organisations) and YPP awards.

**WANTED:** Enthusiastic young planning professionals of <=35 years interested in contemporary planning issues and looking for hands-on experience on actual planning tasks, working with an international team of young and senior planners. Join ISOCARP, and watch out for the next call for expressions of interest.

**WANTED:** Partner organisations who wish to host a YPP workshop, and benefit from the contributions of a skilled, enthusiastic and creative team of young planning professionals, working on issues ranging from urban design of key urban spaces to strategic decisions regarding the future of cities and regions. Do you want to know more? Visit our website at <http://isocarp.org/young-planning-professionals-programme/>.

## ISOCARP Awards Programme

The ISOCARP Awards for Excellence are conferred in recognition of exceptionally innovative urban and regional initiatives.

With the help of the Awards ISOCARP intends to stimulate and promote innovative spatial projects (urban and/or regional), successfully elaborated and/or implemented by local, regional, national authorities or other institutions – thus improving the natural and built environment, quality of life and cultural development. ISOCARP has awarded projects from different continents from local to regional scale.

## ISOCARP & UN Habitat

ISOCARP has developed a strong partnership with UN-Habitat over the years. We are an active member of the World Urban Campaign and the Habitat Professionals Forum.

## Mentoring

Mentoring Sessions at the congress are an opportunity for meetings between the delegates; a more experienced ISOCARP member as **Mentor**, and a **Mentee**, who would like to learn more about the society, and receive guidance on their career and professional development.

Mentors meet with Mentees for a short meeting during the congress, they can also communicate with each other prior to the meeting. The aim is to allow for professional development through networking, guidance and sharing ideas between experienced members and young planning professionals.

Mentors and Mentees apply to take part in the programme. They are matched before the congress. ISOCARP will schedule meetings during the coffee breaks. Mentors explain how their professional work looks like, how they see the profession, how they benefit from being part of ISOCARP, what are the society's activities, give hints on career development etc. Both parties get to know each other.

The "Mentor a Paper" Programme concept is to match authors (Mentees) with experienced ISOCARP Members, who would help them in developing their final contribution to the congress. This year again ISOCARP offered some help to authors who wanted to have a mentor to assist with the elaboration of the paper:

**Shraddha Bahirat, India**  
Understanding gated communities of India and their impact on the neighbourhood cohesion with special focus on digital technology as a means of communication and governance

**Mentor: Aleksandra Stupar**

**Michele Melchiorri, Italy**  
Analyzing Urban and Rural Settlements with Remote Sensing: comparing national trends of rural growth with the Global Human Settlement Layer

**Mentor: Slawomir Ledwon**

**Xin Tong, China**  
Relationship of Transit-oriented Development Communities Factors based on Point of interest and Metro Ridership Data – a Case Study of Shenzhen

**Mentor: Slawomir Ledwon**

**Mahak Agrawal, India**  
Climate Resilient Urban Development Strategies for a Mega city: A Case of NCT of Delhi

**Mentor: Jim Reilly**

**Ning Zhao, China**  
Reconsideration of conservation and regeneration of a suburban historic village: Case Study of Banghu Xu in Guangzhou, China

**Mentor: Malgorzata Hanzl**

**Piotr Smolnicki, Poland**  
Connected & Automated Urban Mobility, Zombie Cars and Kitchen Knives: Will Autonomous Automobiles, Self-Driving Car-Sharing and Ride-Hailing, and Driverless Shuttles Harm Cities?

**Mentor: Judith Ryser**

**Sadije Kelmendi, Kosovo**  
Smart placemaking in the newest country of Europe

**Mentor: Judith Ryser**

## ISOCARP Publications

### ISOCARP 2016 Report

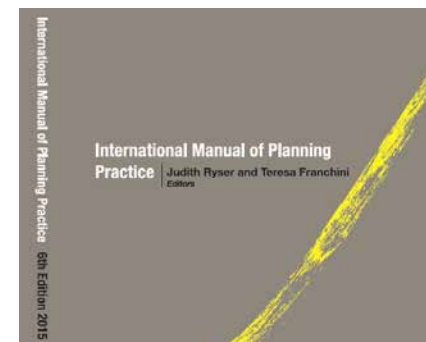
The society's recap on a memorable 2016. Congress, YPPs, Projects, etc...

### ISOCARP Review 13

"The ISOCARP Review is the annual publication of the Society. Now in it's 13th year, the current edition contains articles about: the integration of smart technologies into cities and planning; efforts to integrate Food Security into city and regional planning; noteworthy regional and rural planing projects; and, two articles describing technical assistance which the Society provided to Wuhan, China and to Bodo, Norway. For the first time, the Review is an all-digital publication." Jim Reilly, editor

### International Manual of Planning Practice Vol.6

"IMPP gives readers a comparative overview of planning worldwide provided by experienced practitioners and academics in five continents. The aim of the 135 case studies is to give a comprehensive panorama of the regulated development process and puts it into the perspective of real world experiences." Judith Ryser & Teresa Franchini, eds.





# UPAT

## Urban Planning Advisory Team

### International Society of City and Regional Planners

"Knowledge for Better Cities"

Week	Activity & Responsibility
1	Identify Project & Local Coordinator Local Representatives
2	Submit Letter of Interest ISOCARP Local Coordinator
3	Review & Approve Programme Proposal ISOCARP UPAT VP
4	Assign Team Leader UPAT VP & Local Coordinator
5	Publish "Call for Candidates" UPAT VP
6	
7	Review & Select Senior Planners ISOCARP Programme Committee
8	Determine Agenda Local Coordinator & Team Leader
9	Select Young Planners Local Coordinator
10	Distribute & Study Project Materials Programme Manager & Team Leader
11	
12	
13	
14	Conduct Program Urban Planning Advisory Team
15	Day 1. Site Visit Clarify Issues & Gather Data Day 2. Technical Presentations/Interviews Gather & Assess Data Day 3. Analysis & Scenario Generation Development & Evaluate Alternatives Day 4. Synthesis & Scenario Development Select Alternative Plan(s) Day 5. Scenario Refinement Review & Refine Alternative Plan(s) Day 6. Final Proposal Prepare Optimal Plan(s) Day 7. Presentation Present Recommended Plan(s)
16	
17	
18	
19	
20	Compile & Edit Draft UPAT Report Team Leader & Local Coordinator
21	
22	
23	
24	Approve & Publish UPAT Workbook ISOCARP Program Committee

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2011-12-30

**ISOCARP**  
International Society of City and Regional Planners

ISOCARP is a global, non-governmental organisation; a network of professional planners recognised by the United Nations, UNESCO and the Council of Europe. Members are planners and other stakeholders involved in the development and maintenance of the built environment.

The objectives of ISOCARP are to improve cities and territories through planning practice, training, education and research. ISOCARP promotes the planning profession in all its aspects. ISOCARP keeps its focus on being a politically and commercially independent network of professional planners.

**UPAT**  
Urban Planning Advisory Team

The objective of an ISOCARP Urban Planning Advisory Team (UPAT) is to offer the extensive planning knowledge and experience of ISOCARP members to provide expert and independent advice to local and regional authorities and communities in a particular urban or regional topic.

**Projects**  
15 International UPATs Since 2004



**Topics**  
Environmental Design & Community Revitalization

**Connecting Cities**  
Exchange of Knowledge & Experience



City and Regional Planning  
Landscape and Urban Design  
Mobility, Transport & Tourism  
Heritage Conservation  
Sustainable Development  
Research & Education  
Assessment & Capacity Building  
Housing & Urban Renewal  
Disaster Preparedness & Recovery

The UPAT programme promotes and stimulates the active cooperation between regions and cities. The exchange of knowledge and experiences between regions and cities can help in finding solutions for profound problems and can assist in formulating strategic planning policies and visions for the future.

**Team Members**  
ISOCARP VP for UPATs, Local Coordinator, Team Leader, Programme Mgr, Sr Planners, Young Planners



**UPAT VP:** ISOCARP's Vice President is in charge of the program and represents the Executive Committee (EXCO) to the local / regional authorities and all interested parties. The VP helps define the scope of the programme and coordinates with the EXCO, Local Coordinator, Programme Manager and Team Leader.

**UPAT Programme Manager:** The PM provides logistics support throughout the process. **UPAT Rapporteur:** The Rapporteur writes and edits the UPAT Report with the contributions of the UPAT Team members and in close cooperation with the Local Coordinator, the Team Leader and the VP UPATs.

**UPAT Local Coordinator:** The ISOCARP member that is proposing the UPAT will usually be in charge of the general coordination of the process, before and during the exercise. A **Local Organising Committee (LOC)** includes local counterparts.

**Team Leader:** Considering the area of expertise of the UPAT subject, the UPAT VP and the Local Coordinator will assign an expert in the field as a Team Leader. The Team Leader is responsible for team coordination and final report presentation.

**Senior Planner:** Experts on relevant subjects will be selected to collaborate with the Team Leader, Local Coordinator, fellow Senior Planners and Young Planners to complete a report during the project visit. UPATs usually include five or more Senior Planners.

**YPP:** Young Planning Professionals are selected by ISOCARP and local universities by the Local Organising Committee. Education in a planning-related discipline and IT skills are desirable. UPATs usually include some YPPs.

For more information on ISOCARP and UPATs, please visit the website at [www.isocarp.org](http://www.isocarp.org)

# OAPA Programs

## OAPA Emerging Planners Group Mentorship Program

Join new, experienced, and transitioning planners in sharing and receiving professional knowledge through informal, ongoing partnerships. The Emerging Planners Group (EPG) of the Oregon Chapter of the American Planning Association (OAPA) is launching a mentorship program intended to:

Support new planners and graduate students in building a professional network and leveraging professional development opportunities

Foster experienced planners developing professional relationships with emerging planners and other planning practitioners.

The 2018 OAPA-EPG Mentorship Program will run from January - June 2018. Applications for Mentors and Mentees are due by November 30th, 2017.

More information at:  
<http://www.oregonapa.org/mentorship/>

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- Hone your skills with top-notch professional education, in-person and online.
- Keep up with the profession.

Connect to the planning community.

- Expand your personal and professional networks.
- Exchange ideas, solve problems, and learn from members of the 900+ Chapter.
- Share your special planning interest in an APA division.
- Interact with thousands of colleagues at APA's annual National Planning Conference.

Advance your career.

- Make connections and land your next job.
- Get mentoring, guidance, and training throughout your career.
- Leverage APA training to open new career options.
- Earn certification by the American Institute of Certified Planners.

Promote planning.

- Add your support to APA's advocacy for good planning policies and essential programs.
- Learn how to craft and deliver effective planning messages to officials, business and community leaders, and the media.
- Apply your understanding of state and national legislative and policy issues.





# ISOCARP Awards

25 October 12:30 & 26 October 19:00

ISOCARP recognises excellence through the Society's award programme, consisting of the Awards for Excellence in planning projects, the Routledge Prize for young planning professionals and the Gerd Albers Award for a significant contribution to planning literature and the Students Award.

## Awards for Excellence

The ISOCARP Awards for Excellence are conferred in recognition of exceptionally innovative urban and regional planning initiatives in an increasingly urbanised world. Through the Awards for Excellence ISOCARP intends to encourage and promote innovative spatial projects at different scales that have resulted in improved natural or built environment, enhanced quality of life, sustainability and resilience.

## Gerd Albers Award

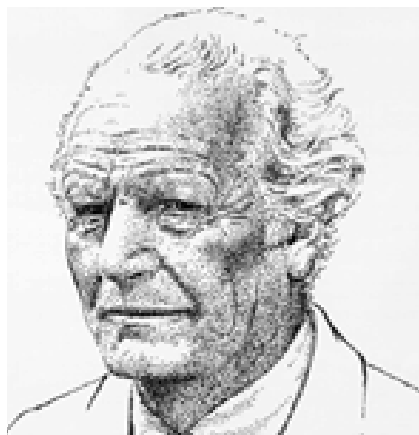
The Gerd Albers Award is for best publication by ISOCARP members during the last year. The Award was established by the Society in 1999 in honour of Professor Gerd Albers, one of the Co-founders and past Presidents of ISOCARP, on the occasion of his 80th birthday.

## Students Award

The award is addressed to a student or student-group with outstanding results in urban and regional planning or a related field.

## Routledge Prize

The Routledge Prize is made possible by Routledge Publishers that give an annual grant to ISOCARP. This grant is awarded to the best poster(s) in the Routledge Poster Exhibition during the Conference.



# OAPA Awards

27 October 12:30

Each year, the Oregon Chapter of the American Planning Association honors outstanding efforts and leadership in planning. We have been recognizing talented planners and their excellent work across Oregon for over 30 years. We received a number of worthy nominations and during the luncheon on October 27th, we will recognize Oregonians, public agencies and consulting firms for their great work in the following categories:

## Project of Statewide Importance

## Professional Achievement in Planning

## Public Involvement and Participation

## Student Achievement in Planning

## Distinguished Leadership – Lifetime Achievement

## Distinguished Leadership – Professional Planner

## Distinguished Leadership by an Elected or Appointed Official

## Betty Niven Award for Distinguished Leadership in Affordable Housing Advocacy.

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# List of Participants

As of 17 October 2017

ABMA, Shane - City of Milwaukie - Milwaukie - USA  
ABOU MRAD, Elias - Beirut - Lebanon  
ADAMS, Seth - City of Medford - Medford - USA  
ADDOTTA, Brianna - City of Beaverton - Beaverton - USA  
ADEBAYO, Ambrose Adeyemi - Durban - South Africa  
ADEBAYO, Pauline - University of KwaZulu-Natal - Durban - South Africa  
ADEKUNLE OBATAYO, Opeyemi - Akure - Nigeria  
AERTS, Jens - UNICEF - Brooklyn - USA  
AGRAWAL, Mahak - Delhi - India  
AHMAD, Sohail - Berlin - Germany  
AHN, Jungjoon - Seoul Metropolitan Government - South Korea  
AIGHOBAHI, Patrick Osagioduwa - Edo state of Nigeria - Benin - Nigeria  
AKGUL, Gonca - Yildiz Technical University - Istanbul - Turkey  
ALAGAPPAN, Valliappan - School of Planning and Architecture, Vijayawada - Vijayawada - India  
ALDRICH, Gregory - Portland - USA  
ALDRICH, Susan - Portland - USA  
ALFINO, Chris - City of Happy Valley - Happy Valley - USA  
AL-KARRANI, Abdulla - Ministry of Municipality and Environment - Doha - Qatar  
ALLISON, Sarah - City of Portland - Portland - USA  
AL-NAIMI, Mubarak - Ministry of Municipality and Environment - Doha - Qatar  
ALRAOUF, Ali - Ministry of Municipality and Environment - Doha - Qatar  
AL-SUWAIID, Noora - Ministry of Municipality and Environment - Doha - Qatar  
ALWAKA MUKOYA, Kent - Nairobi City Water & Sewerage Company - Nairobi - Kenya  
AMOL OJWANG, John - Nairobi City county - Nairobi - Kenya  
ANDERSON-OGILVIE, Lisa - City of Salem - Salem - USA  
ANDREADES, Debra - City of Lake Oswego - Lake Oswego - USA  
ANGELO, Frank - Angelo Planning - Portland - USA  
ANSELMANT, Sara - City of Bend Community Development - Bend - USA  
ARMSTRONG, Kim - Washington County Department of Land Use & Transportation - Hillsboro - USA  
ARMSTRONG, Stephanie - Yamhill County - McMinnville - USA  
ARNIS, Nick - City of Bend - Bend - USA  
ARNOLD, Jennifer - City of West Linn - West Linn - USA  
ARNOLD, Matthew - SERA Architects - Portland - USA  
ATAMER, Allen - Hartmari by LTAS - Toronto - Canada  
AUMA OWADE, Beldina - Nairobi City Water & Sewerage Company - Nairobi - Kenya  
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BABCOCK, Julia - Oregon Solutions - Portland - USA  
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BAHIRAT, Shraddha - Indian Institute of Technology Kharagpur - Kharagpur - India  
BAKER, AICP, Rita - Greater Oregon City Watershed Council - Happy Valley - USA  
BATESCHELL, Miranda - City of Wilsonville - Wilsonville - USA  
BECKTEL, Mark - City of Salem - Salem - USA  
BELSON, Sandy - City of Springfield - Springfield - USA  
BENEDETTO, Mary - Portland - USA  
BERNARD, Katharina - Doppelmayr Seibahnenambly - USA  
BESLEY, David - City of Portland - Portland - USA

BHAGAVAN, Suresh - City of Tumwater - Tumwater - USA  
BHOOT, Makrand - P-A-T-H Professional Alliance for Technology & Habitat - Raipur - India  
BHUTANI, Puja - City of Portland - Lake Oswego - USA  
BIDDLE, Alexis - DKS Associates - Portland - USA  
BISELLO, Adriano - EURAC research - Bolzano - Italy  
BLUMENAUER, Congressman Earl - Office of Congressman Blumenauer - Portland - USA  
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BOSCHETTI, Tabitha - City of Portland Bureau of Development Services - Portland - USA  
BOUILLION, Tom - Port of Portland - Portland - USA  
BOYLE, Rani - Portland State University - Portland - USA  
BRANDEIS, Amos - Amos Brandeis - Architecture, Town & Regional Planning LTD - Hod Ha-Sharon - Israel  
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BREWER, Angie - Wasco County Planning Department - The Dalles - USA  
BRINKLEY, Matt - City of Medford - Medford - USA  
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BROWN, Emily - USDA Rural Development - Bismarck - USA  
BROWN, Angela - Washington County Department of Land Use & Transportation - Hillsboro - USA  
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BRUCE, Sarah - City of Hillsboro - Hillsboro - USA  
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BURNS, Parish - PORTLAND BUREAU OF DEVELOPMENT SERVICES - Portland - USA  
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CHEN, Bowen - Shanghai - China  
CHEN, Haining - School of Architecture, Southeast University - Nanjing - China  
CHEN, Xiao - Southeast University - Nan - China



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KIM, Eunice - City of Salem - Salem - USA  
KIMMELL, Jamin - Angelo Planning Group - Portland - USA  
KINDSCHUH, Thea - Second Nature, Inc. - Boston - USA  
KING, Kevin - DIALOG - Vancouver - Canada  
KIRKMAN, Sambo - Washington County - Hillsboro - USA  
KITUR, Rose - National Land Commission - Nairobi - Kenya  
KNIGHT, Damon - Sitka Technology Group - Portland - USA  
KOLAWOLE, Atinuke - Akure - Nigeria  
KOLIAS, Vera - City of Milwaukie - Milwaukie - USA  
KOPER, Steve - Happy Valley - USA  
KOSKI, Amy - City of Milwaukie - Milwaukie - USA  
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LEWIS, Martin - The South African Council for Planners - Midrand - South Africa  
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LORENS, Piotr - ISOCARP - Gdansk - Poland  
LU, Xiaobo - Southeast University - Changzhou - China  
LUCAS, Justin - Ada County Highway District - Garden City - USA  
LUCCHESI, Ray - Regenesi Group - Santa Fe - USA  
LUCCHESI, Ray - Regenesi Group - Santa Fe - USA  
LUDLOW, David - University West of England - Bristol - United Kingdom  
MABBOTT, Tamra - Umatilla County - Pendleton - USA  
MACLAREN, Ryan - Rogue Valley Council of Governments - Central Point - USA  
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MAHDINIA, Ehsan - Tehran Engineering and Technical Consultant Organization (TETCO) - Tehran - Iran  
MAIRURA OMWENGA, Evans - Town & County Planners Assn of Kenya - Nairobi - Kenya  
MAKAN, Rajesh - Department of Rural Development & Land Reform - Pretoria - South Africa  
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MANGLE, Katie - Alta Planning + Design - Portland - USA  
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MANSON, AICP, Joanne - OMD - Salem - USA  
MANVEL, Evan - Oregon Transportation and Growth Management Program - Salem - USA  
MARCHANT, Bret - United Way of Forsyth County, NC - Portland - USA  
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MARTIN, Kevin - City of Portland - Portland - USA  
MARTIN, Matthew - Deschutes County - Bend - USA  
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VOGT, Matt - Yamhill County - McMinnville - USA  
VOICE, Jared - City of Corvallis - Corvallis - USA  
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WALTER, Peter - City of Oregon City - Oregon City - USA  
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WARDELL, Erin - Washington County - Hillsboro - USA  
WATSON, Samuel - City of Gold Coast - Bundall - Australia  
WEBBER, Richard - City of Gold Coast - Bundall - Australia  
WEBER, Ben - SERA Architects - Portland - USA  
WHITLER, Toni - City of Salem - Salem - USA  
WIEBKE, John - SPRIG, LLC - Portland - USA  
WIECH, Paula - City of Pacific - Pacific - USA  
WILLIAMS, Joey - Portland - USA  
WILLIAMS, Joshua - City of Gresham - Gresham - USA  
WILLIAMS-RAJEE, Desiree - Kapwa Consulting - Tigard - USA  
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WISCO, Tammy - Retia Consult - Bend - USA  
WISELY, Mark - Baulkham Hills - Australia  
WOERNER, Raul - CSA Planning Ltd - Medford - USA  
WOLFE, Andreas - Georgia Institute of Technology - Atlanta - USA  
WOODS, Lance - Yamhill County - McMinnville - USA  
XIAO, Yutong - Harbin - China  
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XIONG, Guoping - Southeast University - Nnanjing - USA

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YANG, Hongping - Urbanization and Urban-rural Planning Research Center of Jiangsu - Nanjing - China  
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YU, TingTing - Harbin Institute of Technology - Harbin - China  
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ZAVARCE, Carlos - Cornerstone Developments LP - Squamish - Canada  
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ZHANG, Ying - Tongji University - Shanghai - China  
ZHANG, Tao - Shanghai - China  
ZHAO, Ning - Guangzhou - China  
ZHAO, Yizhou - Tsinghua University & University of Miami - Miami - USA  
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ZHU, Xiaomin - Tongji university - Shanghai - China  
ZLEVOR, Kelsey - Cameron McCarthy - Eugene - USA  
ZULU, Khetha - The South African Council for Planners - Midrand - South Africa

# General Information

## From the airport to the hotel

<https://isocarp.org/from-the-airport-to-the-hotel/>

## About Portland

<https://www.travelportland.com/>

## Bikeshare service

<https://www.biketownpdx.com/>

## Weather in Portland

<https://www.currentresults.com/Weather/Oregon/Places/portland-weather-in-october.php>

## Money matters

ATMs are widespread and will accept most international bank and credit cards. Credit cards may be used at most hotels, restaurants, care hire companies etc.

## SIM Cards

Major mobile service providers are Verizon Wireless and AT & T.

## Electricity

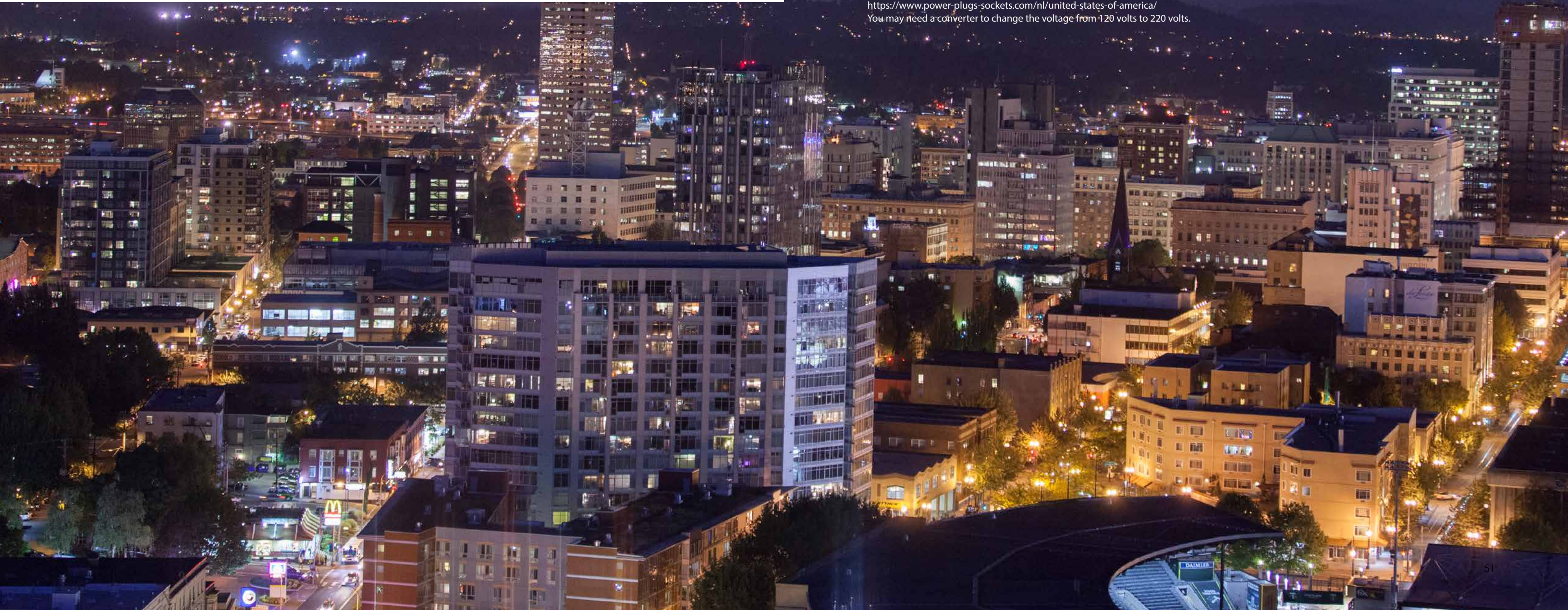
The electricity supply is 120 volts. Power sockets in the US are of type A & B.  
<http://www.usatourist.com/english/traveltips/electric-power-tips.html>  
<https://www.power-plugs-sockets.com/nl/united-states-of-america/>  
You may need a converter to change the voltage from 120 volts to 220 volts.

## Phone numbers

Cellphone emergency number: 911  
Emergency number for conference matters:  
001-503 626 8197

## Dress code

Business casual.  
For final dinner on 26 October you might want to dress up a bit, however, there are no obligations.







The Chapter's mission is to carry out the objectives of the American Planning Association (APA) and to promote the art and science of planning in Oregon.

The Mission of the Oregon Chapter of the American Planning Association is to:

- Promote the art and science of planning
- Helping planners in professional development
- Advance the practice of planning at all levels of experience
- Emphasize the importance of achieving the final vision or goal over mere procedure
  - Protect the legacy of our state's natural environment
- Promote sustainable development objectives through comprehensive planning for economic development, social and environmental objectives
  - Foster social and environmental equity, and
  - Advocate for every citizen's opportunity to participate.



The International Society of City and Regional Planners (ISOCARP) is a global association of experienced professional planners. It was founded in 1965 in a bid to bring together recognised and highly-qualified planners in an international network. The ISOCARP network brings together individual and institutional members from more than 80 countries worldwide.

The wealth and diversity of professional expertise, knowledge, and experience in the ISOCARP membership is unmatched in the planning field. Although ISOCARP members work in many different fields they share a common interest in the spatial and environmental dimensions of urbanisation. They advise key decision-makers, proposing and supporting projects for intervention in a spatial context through general or specific actions.

ISOCARP encourages the exchange of professional knowledge between planners, promotes the planning profession in all its forms, stimulates and improves planning research, training and education and enhances public awareness and understanding of major planning issues at a global level. The association's main event is the annual ISOCARP Congress, which focuses on a globally-significant planning theme and which takes place in a different country each year.

