The IGU Urban commission Excellence Award 2019

From the “urban challenges in a global world” to “(re-)thinking cities and the urban from the global to the local”

Celine Rozenblat
Univ. of Lausanne, Switzerland, former chair of the urban commission 2012-2020, vice-president IGU

Maria-Jose Piñeira Mantiñán
Univ. of Santiago de Compostela, Spain, chair of the IGU Urban commission 2020-2024
PAST, PRESENT AND FUTURE
OF THE URBAN COMMISSION

2000-2008: “Monitoring cities of tomorrow”
2008-2012: “Emerging urban transformations”

URBAN CHALLENGES IN
A GLOBAL WORLD

(Re-)THINKING CITIES
AND THE URBAN FROM
THE GLOBAL TO THE
LOCAL

COMMISSION
EXCELLENCE
AWARD 2019
Moscow meetings of 1976
Professor Kasimierz Dziewonski, Poland (1919-1994)

1976-1984: Commission on National Settlement Systems

COLD WAR
⇒ Comparisons between capitalist and socialist countries
⇒ Continuous academic exchanges between East and West
⇒ Developed v/s developing countries

⇒ 1973: First energy crisis
Urbanization and settlement systems : international perspectives
for International Geographical Union, Commission on National Settlement Systems
Oxford University Press, 475 p. : ill., maps ; 24 cm.
Urbanization and settlement systems: international perspectives
for International Geographical Union, Commission on National Settlement Systems
Oxford University Press, 475 p.: ill., maps; 24 cm.

Comparative analyses of national urban systems: West–East typology of state economies

⇒ Similarities across urban systems and their evolutionary trajectories
⇒ Spatial patterns and functional organization

Systemic perspective
⇒ Cities not as isolated entities (Brian Berry, ‘systems within systems of cities’ (1964))
⇒ Urban trends and structures becoming increasingly global
⇒ New science of complex systems
1984-1992


President: Larry S. Bourne
Vice-president: Robert Sinclair

⇒ 1980’s: rise of computers, decline of manufacturing Western cities
⇒ China take-off industry and export
⇒ 1986: Japanese Real estate crisis

President: Denise Pumain, Paris (France)
Vice-president: Jean-Bernard Racine (Switzerland)

⇒ 1989: Fall of the Berlin wall
⇒ 1990: Collapse of the Soviet Union
Meeting in Berlin in 1994 (G. Braun)

Meeting in Capetown in 1995 (Ron Davies [1931-2012])
2000-2008

Urban commission 2000-2008: “Monitoring cities of tomorrow”

President: Gerhard Braun, FU Berlin (Germany)
Secretary: Yuji Murayama, Tsukuba (Japan)

⇒ 2000’s: Rise of internet (Internet bubble)/ social network
First IGU commission website

⇒ 11/09/2001: Attack of the world Trade Center

⇒ 2004: Entry of Eastern Europe in the EU
Urban commission 2008-2012: “Emerging urban transformations”

President: Christian Wichmann Matthiessen (1945-2018), Copenhagen (Denmark)

Vice-presidents:
- Adrian G. Aguilar (Mexico)
- Celine Rozenblat (Switzerland)

⇒ 2008: Worldwide financial crisis
⇒ 2011: Arab spring
⇒ 2012: London’s Olympic games

**President**: Celine Rozenblat (Switzerland)

**Vice-presidents:**
- Daniel O'Donoghue (United Kingdom)
- 2012-2016: Adrian G. Aguilar (Mexico)
- 2016-2020: Keisuke Matsui (Japan)

**Mentors**
- Larry Bourne
- Wayne Davies
- Jean-Bernard Racine

How differential spatial proximity, segregation, cohesion, environmental and governance factors are transforming the character and vitality of urban places?

- Promotion of multidisciplinary approaches
- Multi-scale approaches (hierarchies, networks, concentrations, segregations...).
- New digital methods using Big Data
- New participatory approaches

Three issues for Urban Geography

- Inter-dependent urban systems
- Diversity between and within cities
- Sustainability and Equity

Three issues for Urban Geography

I- Interdependent Urban Systems
World cities, Small and medium cities, polycentrism

=> new networks shaped by deep-seated structural processes? Policies?

II- Diversity between and within Cities
Inequalities, development, new activities, migrations, preservation

=> diversity within multi-scale, multi-level and multi-dimensional urban processes?

III- Sustainability and Equity
Processes of new urban concentrations, new compact urbanism and renewal of cities often create less equity, more insecurity.

=> More justice in cities?

8 SPECIFIC URBAN CHALLENGES

1- Complex Urban Systems
2- Technological innovations and creative activities in cities
3- Contested Social Spaces
4- Creating Sustainability
5- Dilemmas of Aging Cities
6- Increasing Insecurity
7- Urban Heritage and Conservation
8- Urban Governance

2016: 3 ADDITIONAL CHALLENGES

9- Subjective/Objective well-being in cities
10- Shrinking and aging Cities
11- New concepts and methods in urban studies
IGU Urban Commission / UN Habitat

Evolutionary Theory of urban systems
- Adaptive cycles
- Emergent structures
- Multi-level urban systems

Systematic comparison
- National / Continental
- Urban systems forms
- Cities’ trajectories
- Policies
  ⇒ Common properties
  ⇒ Specificities
  ⇒ Governance recommendations

- Canada
  Larry Bourne & Jim Simon
- USA
- Europe
- Japan
- South Africa
- Africa
- Central Africa
- South America
- Brazil
- China
- South Asia
- India
YOUNG SCHOLAR COMMITTEE

Since 2008
Niamh Moore (Ireland)
Maria Jose Pineira Mantinan (Spain)

- Paper competition (yearly)
- Young Scholars publications (yearly)

Support of Wayne Davies (Canada)

Since 2016
+ Tomoko Kubo (Japan)
+ large committee

2012-2020
45 ANNUAL MEETINGS + PROCEEDINGS

- **Asia** (Nanjing, Seoul, Tokyo, Guangzhou, Hyderabad, Tel Aviv, Shanghai, Beirut...),
- **Africa** (Cape Town, Pretoria, Tunis, Stellenbosch)
- **Latin America** (Mexico City, Salvador de Bahia)
- **North America** (Calgary, Detroit, Montreal)
- **Europe** (Paris, Vaasa, Ljubljana, Glasgow, Santiago de Compostela, Canterbury, Dortmund, Poznan, Dublin, Luxemburg)

**OTHER MEETINGS**

+ joined thematic meetings (La Paz, Hyderabad)
+ IGU General and Regional Congresses
MORE THAN 40 PUBLISHED PROCEEDINGS

Pamplona, Spain 1988
Berlin, Germany 1994
Cape Town, S.A 1995
Hyderabad, India 2009
COMMUNICATION


New WEBSITE 2021: https://www.igu-urban.org/

MAILING LISTS:
- iguurban@unil.ch : 1,046 Subscribers
- geotamtam@unil.ch : 6,030 Subscribers
- Igu_news@unil.ch: 450 Subscribers => open to register

facebook IGU Urban Commission
PAST, PRESENT AND FUTURE OF THE URBAN COMMISSION

2000-2008: “Monitoring cities of tomorrow”
2008-2012: “Emerging urban transformations”
2020-2024: “Re-Thinking cities and the urban from the global to the local”
FROM THE URBAN CHALLENGES IN A GLOBAL WORLD TO (RE-)THINKING CITIES AND THE URBAN
FROM THE GLOBAL TO THE LOCAL

María José Piñeira Mantiñán  •  University of Santiago de Compostela (Spain)  •  Chair IGU Urban Geography Commission 2020-2024
Celine Rozenblat  •  University of Lausanne (Switzerland)  •  Chair IGU Urban Geography Commission 2012-2020
THE CENTURY OF THE CITIES

Globalization
Dispersion
Diversity
Health
Capitalism
Economy
Aglomeración Economy
CITIES
Hiperconexión
Culture
ECONOMIC CRISIS 2008

- DEREGULATION
- ARTIFICIALIZATION
- ECONOMIC INTERESTS
COVID-19 CRISIS 2019
How the virus go out

The New York Times
March 22, 2020
COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

Global Cases: 49,879,743

Cases by Country/Region:
- US: 9,861,881
- India: 8,507,754
- Brazil: 5,653,561
- Russia: 1,760,420
- France: 1,709,773
- Spain: 1,328,832
- Argentina: 1,236,851
- United Kingdom: 1,174,770
- Colombia: 1,136,447
- Mexico: 961,938
- Peru: 920,010
- Italy: 902,490
- South Africa: 735,906

Global Deaths: 1,251,118
- US: 237,113
- Brazil: 162,269
- India: 126,121
- Mexico: 94,808
- United Kingdom: 48,978
- Italy: 41,063
- New York US: 80,494
- Texas US: 811,330
- California US: 81,796
- Florida US: 38,016
- New Jersey US: 36,425

THE FRAGILITY OF CITIES
(Re) think the city

REGENERATIVE CITY

NEW MODEL OF CITY

- Governance
- Economic promotion
- Goods & services
- Vulnerability
- Environmental quality
THE GOBLAL CITY

(Re) think

Paradipomacy
New actors
Reorganization of urban system
Geography of centrality
Transterritorial center
Glocal conditions
(Re) think

Managing the crisis on a urban scale
The immediate response to the outbreak

THE POWER
(Re) think

THE URBAN FORM

- Management of density
- New legislation
- Public health
- Sociability spaces
- Urban planning

Density and urban form

Source: paisajetransversal.org
(Re) think

THE PRODUCTION MODEL

- Decentralitation & Deconcentration
- Clean industry
- Invest, innovation & technologies
- Prosperity
(Re) think

THE SOCIETY

Mitigate fragmentation
Recover the standing
Basic services
Affordable housing
(Re) think

THE MOBILITY

Walkable city
Social exclusion & transport
Public transport
(Re) think

THE LIFESTYLE

Equity
Achievements
Universality
Sufficiency & quality of supply
Continous improvement
New challenges for urban government: resilience & citizen participation
ARCHITECTURAL CONCEPT

Titled "The Vertical Sustainable City," the skyscraper concept represents a new approach to urbanism and sustainable living. The tower is a direct response to reimagining the structure of the city. At the base, the building houses commercial areas framed within a vertical retail core, with a Food Production area that can be accessed via a vertical farm. Traditionally, agriculture is located on the outskirts of cities, but the tower's design integrates a living experience where food can be grown, harvested, and consumed within a single vertical structure. Making access to the vertical farm and residences in the upper half of the tower not only adds an innovative twist to urban living but also enhances the environment. The concept of "The Vertical Sustainable City" creates a hybrid living environment that juxtaposes ecological responsibilities with the practicality of modern living.
(Re-)Thinking cities and the urban: from the global to the local

- To analyze the complex challenges and problems that cities and urban regions are facing in the early 21st Century.
- To develop new ways of seeing, understanding and governing cities.
- To reflect upon the challenges of cities and future urbanization.

Cities as drivers of, and driven by, transformational change

Cities, urban systems and nation states

Urban areas under pressure of transformation

Climate change, resilience, urban health and well-being

Governance, institutions, urban policy
Cities as drivers of, and driven by, transformational change

- The ‘triumph’ of the city vs. ambivalent urbanization
- A mosaic of urban growth and decline
- The city as destiny for global migration
Cities, urban systems and nation states

- Globalization and world cities
- Financialization of the urban
- Mega-city urbanization
- Trade wars, new nationalism and regionalisms
Urban areas under pressure of transformation

- Urban redevelopment
- Societal polarization
- Affordable cities: Gentrification, touristification
- Overall surge of inequality
PER L'ABOLICIÓ DELS PISOS TURÍSTICS

VULL CREIXIR A LA BARCELONETA

ZONA TURÍSTICAMENT SATURADA!

ZONA TURÍSTICAMENT SATURADA!

MY BUILDING IS NOT A HOTEL

BARCELONA NO ESTÀ EN VENDA
Climate change, resilience, urban health and well-being

- Long-term urban sustainability
- Climate change mitigation & adaptation
- Urban greening
- Making cities resilient & robust against diseases.
Anthropocene: a concept to change the interpretation of land, urbanism and cities
Urban underground
PROGRESS HIGHLIGHTS

- 23,400 new trees planted since 2010
- 3,200 new local food and green jobs since 2010
- 44% decrease in community greenhouse gases since 2007
- 6% decrease in solid waste sent to landfill or incinerator since 2008
- 12% decrease in total water consumption since 2006
- 30% increase in neighbourhood food assets since 2010
- 93 electric vehicle charging stations

265km of bike network in Vancouver
Rainwater collector, Singapore
Reversible building tiles illuminate cities with solar energy

Hemos oído hablar durante mucho tiempo de cómo los OLED (diodos orgánicos de emisión de luz) están a punto de cambiar el mercado de la electrónica gracias a su eficiencia energética, pero ¿qué sabemos de sus aplicaciones a gran escala para iluminar fachadas y edificios urbanos?

Las Urban Tiles (Baldosas urbanas), creadas por el diseñador israelí Meldad Marzan, ofrecen una mirada de cómo los OLED podrían potencialmente iluminar nuestros paisajes urbanos en forma de baldosas reversibles con energía fotovoltaica por un lado (recogida de la energía solar durante el día) y OLEDs por el otro lado, que brillan durante la noche utilizando la energía acumulada.
District of Chantrea was built in the 1950s, 1960s and 1970s:

- Public buildings with significant energetic consumption
- 9 examples of District Heating.
- Social housing buildings.
Sustainable public transport
Sensitise the population
Sponge City
Shared electric scooters to measure air pollution
Breathe London

Air Pollution Now (20:00 on Saturday 30th January 2021)
Click on the map, drag the marker, or enter a postcode to see the pollutant concentrations at that location

Enter postcode
Find

Index at Current Location

<table>
<thead>
<tr>
<th>NO₂</th>
<th>O₃</th>
<th>PM10</th>
<th>PM2.5</th>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
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</tbody>
</table>

The local authority for this location is Camden

Health Advice for Current Location (In postcode NW1 1AT)

General Population - Enjoy your usual outdoor activities.

Individuals at Risk - Enjoy your usual outdoor activities.

Health effects can be more profound if you are sensitive to air pollution.
Governance, institutions, urban policy

- City-regional governance
- Entrepreneurial urbanism
- Participation vs. populism
- New Global Urban Agendas
Victim of its success: Rising rents push locals out of Lisbon
Madonna, Mónica Bellucci...and now Scarlett Johansson joins the list of celebrities with homes in Lisbon
Smart Cities and Slum Resilience

Shack/Slum Dwellers International (SDI)

Health Access

- Most common diseases:
  - TB
  - HBP
  - DIABETES
  - HIV AND AIDS

- Access to health clinics: Yes
- Access to AIDS clinics: Yes
- Access to hospitals: Yes

Average walking time to nearest health clinic (minutes): more than 1 hour
Average walking time to nearest Aids clinic (minutes): more than 1 hour
Average walking time to nearest hospital (minutes): more than 1 hour
LAS MENINAS DE CANIDO-FERROL
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María José Piñeira Mantiñán. Chair IGU Urban Geography Commission (2020-2024)

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www.igu-urban.org

THANK YOU