

**CEDEUS International Conference**

**Sustainable Urban Development, Concepts and Methods**  
Campus Lo Contador, El Comendador 1916, Providencia, Santiago de Chile

**Wednesday 22 January – Friday 24 January**  
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**WEDNESDAY 22 JANUARY**

Auditorio FADEU

**18.00-18:45**

**Welcome**  
Deans of FADEU and Engineering, UC

**Jonathan Barton, Director CEDEUS**  
*Introduction to CEDEUS and the challenges of sustainable urban development*

**18.45-19.45**

**Keynote 1**  
**Elliott Sclar, Director, Center for Sustainable Urban Development, The Earth  
Institute, Columbia University**  
*Urban Access for the 21st Century: Finance and governance models for urban  
transportation*

**20.00-21.00**

**Reception**

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**THURSDAY 23 JANUARY**

Auditorio FADEU

**8.30-10.00**

**Session 1: Conceptual approaches to Sustainable Urban Development**

**Moderator: Jonathan Barton**

|   |   |
|---|---|
| Otherness and Urban social sustainability. A concept review   | Francisco Sabatini; Luis Valadez; María Paz Trebilcock                          |
| Sustainable Neighborhoods. Collective space and social networks   | Margarita Greene; Felipe Link; Rodrigo Mora; Cristhian Figueroa                 |
| Visibility and the urban landscape. What we do (not) know?  | Hector Jorquera; Luis Rizzi   |
| Ecosystem services provided by urban biodiversity at local scale. Conceptual framework, challenges and perspectives | Francisco de la Barrera; Sonia Reyes-Paecke; Olga Barbosa; Juan Luis Celiz-Diez |

**10.00-10.45**

**Keynote 2**

**Kimberley Gray, Department of Civil & Environmental Engineering, Northwestern University**

***Living Cities: The Sustainable Reinvention of Exploding Megacities and Shrinking, Post-industrial Cities***

**10.45-11.15: Coffee**

**11.15-12.45**

**Session 2: Integrative approaches**

**Moderator: Jordan Harris**

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|---|--|
| Sustainability at an Urban Scale. A Prospective Study on the use of Sustainability Rating Systems for Large-Scale Projects in Chile | Juan Pablo Blanco  |
| Greening the startup of a green roof: improvement or degradation of water quality?  | Eduardo Leiva; Rodolfo Reyes; Francisco Suárez; Felipe Victorero; Waldo Bustamante; Vicky Rojas; Jorge Gironás; Carlos Bonilla; Sergio E. Vera; Pablo Pastén |
| Accessibility and Transport Disadvantage Indicators: The Case of Educational and Health Facilities in Los Ángeles, Chile            | Carolina Rojas; Felipe Aguilera; Consuelo Peyrin; Andrés Schäffer; Juan Antonio Carrasco   |
| Green roofs in semi-arid environments. The need for better predictive tools   | Francisco Suárez; Mark Hausner; Felipe Victorero; Pablo Pasten; Waldo Bustamante; Vicky Rojas; Jorge Gironás; Carlos Bonilla; Sergio E. Vera                 |





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**12.45-13.45. Lunch Break**

**13.45-15.15**

**Session 3: Policy and implementation**

**Moderator: Francisco Sabatini**

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| Bio-Energy for a Sustainable Future.<br>Developing Biological Systems to Respond to Energy Needs  | Ignacio Vargas; Javiera Anguita; Natalia Tapia; Vasty Zamorano; Katherine Rojas; Cristóbal Alvear; Josefa Barceló; Claudia Arauzo; Nicolás Sandoval; Rosa Godoy; Martin Garrido |
| The resurrection of monuments:<br>Reconstruction and recuperation of monumental buildings in downtown Santiago:<br>Challenges in a sustainable urban context              | Fernando Pérez Oyarzún  |
| Stormwater Drainage Manual for Chile.<br>Lessons Learned and Future Challenges  | Jorge Gironás; Bonifacio Fernández; Raimundo Rodriguez  |
| Sustainable Urban Planning in cities affected by rural migration. Land abandonment and migration: a challenge for the sustainable development of the cities in arid lands | Carla Ximena Salinas Silva; Miriam Pinto Tobalina   |

**15.15-15.45: Coffee**

**15.45-16.30**

**Keynote Speaker 3**

**Adriana Allen, Development Planning Unit, University College London**

***Differential Sustainability or environmentally just urbanization?***

**16.30-18.15**

**Session 4: Evaluation and certification**

**Moderator: Pablo Pastén**

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| A New Laboratory for Experimental Evaluation of Building's Vegetative infrastructure in Semiarid Climates of Chile: An interdisciplinary approach | Felipe Victorero; Gustavo Azorin; Sergio Vera; Waldo Bustamante; Carlos Bonilla; Jorge Gironás; María Victoria Rojas; Pablo Pastén; Francisco Suárez |
| Industrial Ecology: a methodology for exploring Copiapo's potential for technological integration   | Pedro Ignacio Alonso; José Hernández   |





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| An Integrated Approach to Identification, Assessment and Management of Watershed-Scale Risk for Sustainable Water Use Through Reuse and Recycling | Christian K. Hunter; Diogo Bolster; Jorge Gironás  |
| Green Roof Irrigation in Semi-Arid Climates. An Integrative Approach to Sustainable Urban Environments  | Carlos A. Bonilla; Rodolfo Reyes; Sergio Vera; Jorge Gironás; Waldo Bustamante; María Victoria Rojas; Felipe Victorero; Pablo Pastén; Francisco Suárez |
| Of urban orchards, bus corridors, citizens and cycles: Delights and difficulties of building new forms of transdisciplinary collaboration         | Lake Sagaris   |

**18.15-19.00**

**Keynote Speaker 4**

**Anna Rubbo, Centre of Sustainable Urban Development, Columbia University**  
*Educating for sustainable development: the Global Studio model.*

**19.15**

**Buffet (Campus Lo Contador, Patio de los Naranjos)**

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## FRIDAY 24 JANUARY

Auditorio FADEU

**08.30-10.00**

### **Session 5: Evaluating flows and processes in urban components** **Moderator: Juan Antonio Carrasco**

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| Transfer Stations: Usage and adaptation to travellers needs   | Margarita Greene; Cristhian Figueroa; José Allard; Rosanna Forray; Ricardo Giesen; Juan Carlos Herrera; Rocío Hidalgo; Carola Zurob |
| Indoor PM2.5 at Santiago and Concepción, Chile. Do household envelopes protect us from outside pollution? | Héctor Jorquera; Francisco Barraza  |
| Modeling spatial patterns in Chilean mid-sized cities. Towards a sustainable urban development?           | Cristian Henríquez  |
| Solar and lighting transmission through facades of office buildings of Santiago                           | Waldo Bustamante; Felipe Encinas; Alejandro Prieto; Claudio Vásquez; Sergio Vera  |

**10.00-10.45: Keynote Speaker 5**

**David King, Centre for Sustainable Urban Development, Columbia University**  
*Who Pays and Who Plans? A Comparative Analysis of Select Transit Finance Models.*

**10.45-11.15: Coffee**

**11.15-12.45**

**Sala 101**

### **Session 6 PARALLEL: People and preferences** **Moderator: Lake Sagaris**

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| Latin American gentrification, Real estate capitalism and residential segregation  | Francisco Sabatini               |
| Interest and willingness to purchase solar protection devices for improving summer comfort conditions in apartment buildings | Felipe Encinas; Waldo Bustamante |



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| A mobility perspective on urban segregation and social exclusion Evidence from personal networks from four Chilean neighborhoods | Juan Antonio Carrasco; Carolina Rojas; Claudia García Lima; Gerson Araneda |
| Recent developments in urban markets in major Chilean cities: Sustainable social and economic structures?                        | Luis Fuentes; Felipe Link  |

**11.15-12.45**

**Sala 102**

**Session 7 PARALELL: Methods and evaluation**

**Moderator: Fernando Pérez**

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| Opportunity Footprint and Urban Landscape dematerialization. A reading method for urban planning in medium-sized cities in Chile. | Mario del Castillo Oyarzún; Claudia Castillo Haeger  |
| Profiling of office buildings in Santiago from the point of view of energy consumption  | Claudio Vásquez Zaldívar; Felipe Encinas Pino; Alejandro Prieto Hoces.   |
| A Parametric Study of the Impact of Green Roof on a Retails Building Thermal Performance in a Semi-arid Climate                   | Sergio Vera; Camilo Pinto; Felipe Victorero; Waldo Bustamante; Carlos Bonilla; Jorge Gironás; María Victoria Rojas; Pablo Pastén; Francisco Suárez |
| Urban bioclimatic in Public Spaces. Comparative analysis on optimizing comfort in six main squares of Chilean cities.             | Claudia Castillo Haeger; Mario del Castillo Oyarzún  |

**12.45-13.45: Lunch Break**

**13.45-14.30: Keynote 6**

**Jean-François Gaillard, Department of Civil and Environmental Engineering,  
Northwestern University.**

***Metals in the urban environment***

**14.30-16.00**

**Session 8: Governance and interests**

**Moderator: Juan Carlos Muñoz**

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| Conflicts over Public Space for Mobility: What changes bus corridor projects in developing cities | Laurel Paget-Seekins |
| Planning in the desert. Sustainability and mining, actor and cities                               | José Piga            |





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| Greenways. Towards a sustainable landscape planning of the urban regions. The theoretical principles of the territorial and democratic governance of the landscape connectivity in a urban context. | María Carolina Solar Silva                          |
| Perceived Complexity and Perceived Legibility in Relation to Path Choice of Commuters in Central Business District  | Mohammad Paydar                                     |
| Inverting the triangle: The political ecology of domestic urban waste circuits in Chilean sustainable urban development   | Jordan Harris; Felipe Irrarrázaval; Jonathan Barton |

**16.15-16.45: Coffee**

**16.45-17.30: Keynote 7**

**Leandro Minuchin, Manchester Architecture Research Centre, University of Manchester.**

***Beyond the post-political trap: construction practices and the search for alternative urban policy epistemologies***

**17.30: CLOSING REMARKS**

