

THE SCHOOL OF ARCHITECTURE AND URBAN DESIGN  
OF THE NATIONAL UNIVERSITY OF COLOMBIA (UNAL)  
AND THE COLOMBIAN ASSOCIATION OF FACULTIES OF ARCHITECTURE (ACFA)

IN ALLIANCE WITH:

THE ALEXANDER VON HUMBOLDT INSTITUTE (IAVH)  
THE COLOMBIAN GREEN BUILDING COUNCIL (CCCS)  
THE U.S. GREEN BUILDING COUNCIL (USGBC)  
THE WORLD GREEN INFRASTRUCTURE NETWORK (WGIN)  
WGIN'S CHAPTER FOR EMERGING PROFESSIONALS (GICEP)  
THE INTERNATIONAL FEDERATION OF LANDSCAPE ARCHITECTS (IFLA)

PRESENT:

# BIOPOLIS2024

LIVING LANDSCAPES AND INFRASTRUCTURES  
FOR HEALTHY COMMUNITIES

GLOBAL SYMPOSIUM  
COP16 - CALI - COLOMBIA

The international Commission for Living Infrastructure (LINC) embraces the shift from grey to nature-based cities at the COP16. The frenzy of human-centered urbanization over the last two centuries drastically transformed life-supporting ecosystems into artificial environments failing to maintain the health of humans and non-humans. At the tipping point of the current environmental crisis, there is an urgent need to design and build urban landscapes that integrate plants, birds, pollinators, microorganisms, and other non-human forms of life that are key to functional and resilient communities. This implies fostering our awareness of cities as a continuum of nature in man-made environments through new methods, approaches, projects and metrics that reflect how biodiversity contributes to achieving regenerative and inclusive urban landscapes which manifest the “human right to nature” motto, but also how buildings, public space and infrastructure meet the “rights of nature” and are recognized as a sound conservation strategy.



COP16  
COLOMBIA  
Paz con la Naturaleza

LA CASA  
HUMBOLDT





# AGENDA - DAY ONE

Tuesday 22 October

Venue 1: Casa Humboldt, Centro Cultural Comfandi Nelson Garces Vernaza, Cali



8:00	<b>Opening.</b> National University, Alexander Von Humboldt Institute, Ministry of Environment and Sustainable Development, Colombia
<b>THE BIG PICTURE: Biopolis Across Scales (Session 1)</b>	
8:10	<b>Keynote: Therapeutic + Rehabilitative Designed Environments for One Health.</b> BRUNO MARQUES, New Zealand. President, International Federation of Landscape Architects (IFLA).
8:30	<b>Main Ecological Structure.</b> GLORIA APONTE, Colombia. International Federation of Landscape Architects (IFLA).
8:50	<b>Keynote: Landscape Architecture Solutions to 'Halt and Reverse' Biodiversity Loss.</b> SOHYUN PARK, United States. University of Connecticut. American Society of Landscape Architects (ASLA).
9:10	<b>Ecosystemic Cities: Reflections on the Adaptive Masterplan Proposal Applied to Belo Horizonte.</b> ALINE VILELA, Brazil. Pontificia Universidade Católica de Minas Gerais, (PUC-MG).
9:30	<b>The Ring City: Three Basic Patterns.</b> ANTONIO FERNANDEZ, Colombia.
9:50	<b>Coffee Break</b>
<b>ENGAGING STAKEHOLDERS: Biopolis Across Communities (Session 2)</b>	
10:10	<b>Keynote: 1+1=3... Art, Science and Other Entanglements for Biodiversity.</b> DAVID MADDUX, United States. The Nature of Cities (TNOC).
10:30	<b>Keynote: From Watersheds to Urban Fabric: Fostering Active Citizenship.</b> DIANA WIESNER, Colombia. Cerros de Bogota Foundation.
10:50	<b>Keynote: Learning from Cities: People and Nature in the Urban Context.</b> AUDREY TIMM U.K, Association Internationale des Producteurs de l'Horticulture, (AIPH).
11:10	<b>Keynote: Living Landscape: The BiodiverCities Approach at Ciénaga Marroquín for Healthy and Inclusive Communities.</b> MARTHA FAJARDO, Colombia. International Federation of Landscape Architects (IFLA).
11:30	<b>Urban Design: Integrating Nature and Community. A New Academic Scenario.</b> JULIANA MONTOYA, Colombia. Universidad EAFIT. Área de Territorios y Ciudades. (URBAM) - Centro de Estudios Urbanos y Ambientales.
<b>CONVERSATION PANELS</b>	
11:50	<b>Multi-actor Commission to Reconcile Public Spaces with Nature.</b> ANA MIRANDA & ANDRÉS IBAÑEZ, Corteza Viva, Colombia.
12:20	<b>A Conversation on Nature and the Built Environment.</b> ANGELICA OSPINA & ROBERTO MORENO, Colombia. Colombian Green Building Council (CCCS) - Amarilo .
12:50	<b>LUNCH BREAK (LUNCH PROVIDED AT VENUE BY CCCS)</b>
<b>LOCAL STORIES: Biopolis Across Environments (Session 3)</b>	
13:50	<b>Keynote: 6 Strategies to Biodiverse Cities in Colombia.</b> ANDRES IBAÑEZ, Colombia. National University of Colombia (UNAL), World Green Infrastructure Network (WGIN).
14:10	<b>Urban Acupuncture for Amazonian Cities Connected to their Biodiversity.</b> JUAN FELIPE GUHL, Colombia. Instituto Amazónico de Investigaciones Científicas (SINCHI).
14:30	<b>Ritual Territory in Biogeographic Choco: Landscape, Ritual, Territory, Body and Architecture in the Pacific Coast.</b> CARLOS ARIAS, Colombia. Guia Nomada Collective.
14:50	<b>"Puttumika Mainki Pamparuz an Pianmika Inkal Awá". Waving Roots of the Inkal Awá Knowledge.</b> ANGELO PAEZ CALVO, National University of Colombia (UNAL).
15:10	<b>Biodiverse Urban Design Adapted from the Dry Forest in the Atlantic Coast.</b> CARLOS CUELLO, DOROTHEA CARDONA et. Al, Colombia. Alexander Von Humboldt Institute (IAVH).
15:30	<b>Coffee Break and Biopolis Declaration Video</b>
15:50	<b>The Urban Ecological Structure as a Territorial Platform for Nature's Contributions to People in Medellin, Colombia.</b> FRANCISCO VASQUEZ, Colombia. University of San Buenaventura.
16:10	<b>Biodiversity Connectivity Systems as Structure of Urban Settings.</b> FERNANDO CORTES, Colombia. National University of Colombia (UNAL).
16:30	<b>Transdisciplinary Approach as an Opportunity in Housing Developments to Increase Biodiversity in Cartagena.</b> DIANA SALAZAR & SOFIA LISSBRANT, Colombia. AED Constructores.
<b>CLOSING LECTURE (Session 4)</b>	
16:50	<b>Keynote: Green Building Rating Systems: a Framework to Accelerate Impact at Scale for Biodiversity.</b> PETER TEMPLETON, United States. United States Green Building Council (USGBC).



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## AGENDA - DAY TWO

Wednesday 23 October

Venue 2: Universidad del Valle, Calle 13 No. 100 - 00 Auditorium Carlos Restrepo



8:00	<b>Introduction</b> by the Colombian Association of Architecture Faculties (ACFA).
<b>NEW FRONTIERS: Biopolis Across Technologies and Spaces (Session 5)</b>	
8:10	<b>Keynote: Biodiversity for Health and Healthcare Infrastructure.</b> DAVID BRASFIELD, Norway. World Green Infrastructure Network (WGIN).
8:30	<b>Keynote: Building - Nature: Navigating how the Building Sector is Approaching Biodiversity.</b> ELIZABETH BEARDSLEY, United States, U.S. Green Building Council.
8:50	<b>Keynote: What if... Form Followed LIFE? Potential Lessons From a Radical Urban Design Experiment.</b> OLIVIA BINA, University of Lisbon, Portugal.
9:10	<b>Keynote: BIOPOLIS 2100: Architectures Beyond Human.</b> ANDRES IBÁÑEZ, Colombia. National University of Colombia (UNAL), World Green Infrastructure Network (WGIN).
9:30	<b>The Owl Monkey Path: Metahuman Architecture Applied to a Wildlife Crossing Design in Rural Quindío.</b> LUNA RODRIGUEZ, Colombia. World Green Infrastructure Network WGIN's Chapter for Emerging Professionals (GICEP) - National University of Colombia (UNAL).
9:50	<b>Urban Microbiotopes.</b> JUAN ARISTIZABAL, Colombia/Italy. World Green Infrastructure Network WGIN's Chapter for Emerging Professionals GICEP - National University of Colombia (UNAL).
10:10	<b>Integrated Stormwater Management in the Context of Water Sensitive Landscapes and Cities.</b> FERNANDA PEDRAZA, Colombia. National University of Colombia (UNAL).
10:30	<b>Natural Processes for Water Regulation: Network of Rain Parks.</b> JUAN GOMEZ, Colombia. National University of Colombia (UNAL).
10:50	<b>Optimizing Green Infrastructure for Urban Sustainability: Insights from Brazil and Germany.</b> ELAISE GABRIEL, Brazil. World Green Infrastructure Network WGIN's Chapter for Emerging Professionals (GICEP).
11:10	<b>(Un)finished Landscapes for 2100: Multifunctional Infrastructure and Public Space on the Amphibian Border of Tumaco, Colombia.</b> SERGIO CORTES, Colombia. National University of Colombia (UNAL).
11:30	<b>COFFEE PROVIDED AT VENUE BY CCCS AND LUNCH BREAK (LUNCH NOT PROVIDED AT VENUE)</b>
14:30	<b>Natural Cities: 5 Pillars for Green Infrastructure Implementation in Cities.</b> LUIS SUAREZ, Colombia. HELECHO.
14:50	<b>Biodiversity and Climate: The Green Future of Bogotá - Case Study of the Bogotá-Region, Science, Technology and Innovation Building (CTIB).</b> LAURA MANTILLA and MARGARITA MARIA ROMERO ROJAS, Colombia.
15:10	<b>Emerging Pedagogies in Sustainable Urban Design of a Reimagined Caribbean Mangrove Swamp in the Context of the Climate Crisis.</b> CARLOS BUENO, Colombia. Universidad del Norte.
15:30	<b>Spaces for Tropical Education Enbeded in Nature, Colombian Pacific Coast.</b> LEONARDO ALVAREZ, National University of Colombia (UNAL).
15:50	<b>Geography Mediations: Urban Approaching Systems to Nature.</b> GUSTAVO SALAZAR, Universidad del Valle, Colombia.
<b>CLOSING LECTURES (Session 6)</b>	
16:10	<b>Keynote: The Lowline: The World's First Underground Park.</b> JAMES RAMSEY, United States. RAAD ARCHITECTURE NEW YORK.
16:40	<b>Keynote: Equatorial Architecture for Amazonic Biomes.</b> LAURENT TROOST, Brazil/Belgium. LAURENT TROOST ARCHITECTURES by TROOST+PESSOA Architects.
17:10	<b>Keynote: Climate and Biodiversity Positive Design.</b> EUSTACIA BROSSART, United States/Argentina. CLIMATE POSITIVE DESIGN, HARVARD GRADUATE SCHOOL OF DESIGN LANDSCAPE ARCHITECTURE, WORLD ECONOMIC FORUM NATURE-POSITIVE CITIES.



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## MEET OUR KEYNOTE SPEAKERS - DAY ONE



**Bruno Marques** NEW ZEALAND

### ***Therapeutic + Rehabilitative Designed Environments for One Health***

Landscape architect and educator with 10+ years of experience at Victoria University of Wellington, New Zealand. His research agenda focuses on developing frameworks for landscape rehabilitation, cultural landscapes, place-making, and Indigenous community health and wellbeing. Bruno is the current President of the International Federation of Landscape Architects (IFLA).



**David Maddox** UNITED STATES

### ***1+1=3... Art, Science and Other Entanglements for Biodiversity***

David loves urban spaces and nature. He loves creativity and collaboration. He loves theatre and music. In his life and work he has practiced in all of these as, in various moments, a scientist, a climate change researcher, a land steward, an ecological practitioner, composer, a playwright, a musician, an actor, and a theatre director.



**Sohyun Park** UNITED STATES

### ***Landscape Architecture Solutions to 'Halt and Reverse' Biodiversity Loss***

Dr. Sohyun Park is an Associate Professor in the Department of Plant Science and Landscape Architecture at the University of Connecticut (UConn). Her research aims to advance our understanding of how urban morphology, functions, and changes influence ecosystem services, as well as their interactions with human well-being.



**Diana Wiesner** COLOMBIA

### ***From Watersheds to Urban Fabric: Fostering Active Citizenship***

Activist, architect, and landscape designer based in Bogotá, known for her leadership in socio-ecological issues and her innovative designs in urban ecology and landscaping. Her work has been recognized in national and international architecture and landscape architecture biennials. She is deeply committed to the preservation of Bogotá's natural systems.



**Audrey Timm** UK

### ***Learning from Cities: People and Nature in the Urban Context***

Horticultural scientist specialised in ornamental horticulture. Spanning many aspects of horticulture, Audrey's career has covered academic research in South Africa, industry support, training and on-farm research and development in Australia, and promoting the connection between design and ecology in urban landscapes with the University of Sheffield in the UK. Audrey is Technical Advisor of the International Association of Horticultural Producers (AIPH).



**Martha Fajardo** COLOMBIA

### ***Living Landscape: The BiodiverCities Approach at Ciénaga Marroquín for Healthy and Inclusive Communities***

Colombian Architect and Landscape Designer (MSc) with honorary Doctor of Letters (D'Litt) from University of Sheffield. Co-director of Grupo Verde, a leading environmental urbanism and landscape architecture firm. 35+ years of global experience promoting sustainable development.



**Peter Templeton** UNITED STATES

### ***Green Building Rating Systems: a Framework to Accelerate Impact at Scale for Biodiversity***

Peter Templeton has worked for more than 25 years to accelerate global adoption of practices that enhance human and environmental health, resiliency, equity, and quality of life for all. As president and CEO of the U.S. Green Building Council and Green Business Certification Inc., he directs efforts to strengthen the reach and impact of green building globally.



## MEET OUR KEYNOTE SPEAKERS - DAY TWO



**David Brasfield** NORWAY

***Biodiversity for Health and Healthcare Infrastructure***

David is a recognized expert in sustainable healthcare, inducted into the European Healthcare Climate Council (2019). Chairman, Norwegian Association for Green Infrastructure (2018-present). Board Member/Secretary, World Green Infrastructure Network (2017-present). He has been involved in projects driving eco-friendly urban development and climate change mitigation, and advancing sustainable healthcare solutions globally.



**Elizabeth Beardsley** UNITED STATES

***Building - Nature: Navigating how the Building Sector is Approaching Biodiversity***

25+ years of professional experience working on environmental and climate issues both as an engineer and lawyer. In her current role, she serves as Senior Policy Counsel at the U.S. Green Building Council, a global nonprofit best known for LEED, the world's most widely used green building rating program. She provides strategic green building law and policy guidance and direction across the international, federal, state and local spectrum.



**Olivia Bina** PORTUGAL

***What if... Form Followed LIFE? Potential Lessons From a Radical Urban Design Experiment***

Olivia is a Senior Researcher at the Institute of Social Sciences University of Lisbon, Fellow of the World Academy of Art and Science. Her research focuses on transformative change for sustainable urban futures, on the critique of "green" growth and notions of scarcity, and on exploring the unlimited potential of human-nature connectedness.



**Andrés Ibañez** COLOMBIA

***Biopolis 2100: Architectures Beyond Human***

Architect and educator, he directs the School of Architecture and Urban Design at the National University of Colombia. He is a Board member of the World Green Infrastructure Network and the Colombian Association of Faculties of Architecture. Andrés has co-authored key publications on Green Infrastructure and Ecogenerative Architecture, including Colombia's National Green Infrastructure Policy, the book Biodiversities by 2030, and the Technical Guidelines for Green Roofs of Bogotá.



**James Ramsey** UNITED STATES

***The Lowline: The World's First Underground Park***

Founder of RAAD Studio, a team of architects, designers, and inventors, Ramsey has designed and built hundreds of global projects. He's also the visionary behind the Lowline, the world's first underground park. A Yale Architecture graduate and former NASA satellite engineer (Pluto and Saturn missions), Ramsey pioneered a revolutionary solar technology to bring sunlight underground, making the Lowline a reality in Manhattan.



**Laurent Troost** BRAZIL/BELGIUM

***Equatorial Architecture for Amazonic Biomes***

Troost + Pessoa Architects is a practice based in Manaus, Amazonas and São Paulo, Brazil, offering creative ecologically and economically responsible solutions for the real estate and hotel markets. In recent years, they have received numerous international awards, such as Oscar Niemeyer Award, Akzonobel Award, St Gobain Asbea, Dezeen Award, Architecture Masterprize and the IAI Most Creativity Award.



**Eustacia Brossart** UNITED STATES/ARGENTINA

***Climate and Biodiversity Positive Design***

Landscape Architect & Research Director at Climate Positive Expertise in site carbon footprint reduction & carbon sequestration, Eustacia developed Climate Positive Design & Pathfinder app. Driving sustainable design practices. 12+ years designing innovative landscapes globally, including SF Waterfront Resilience, Facebook HQ & Constitution Gardens. Fellow, SPUR & UC Berkeley. MLA, UC Berkeley; BA, USC School of Cinematic Arts.





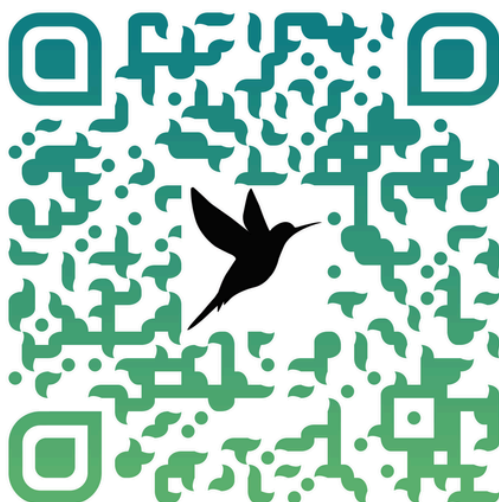
**Access to BIOPOLIS 2024** in Cali is free of charge, but the number of spaces is limited. To reserve your space, you must be given a code by any of the organizing institutions or request a code to the organizing committee at [biopolis\\_nal@unal.edu.co](mailto:biopolis_nal@unal.edu.co)

**Registration for day 1 and day 2 must be completed before:**  
**October 8, 2024**

**Register here with an access code:**

**Formulario de pre-registro  
(Español)**

<https://forms.gle/g9n2acSuyjZ57TAQA>



**Pre-registration form  
(English)**

<https://forms.gle/Fm8Ve8wbiZowjYSf7>



Registration confirmation e-mails will be sent before October 15 or upon request. With confirmation, attendants will be given access to the Symposium, refreshments, coffee and lunch passes free of charge.

*Speakers are not required to fill out the pre-registration form*



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