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CONFERENCE SCHEDULE
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Saturday 24th

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HACKATHON

EXHIBITIONS

ACADIA ORGANIZATION

CONFERENCE MANAGEMENT AND PRODUCTION

PEER REVIEW COMMITTEE

VOLUNTEERS

SPONSORS
THURSDAY 22ND - MORNING
MATERIAL SCIENCE

21c Museum Hotel C 8:00AM Conference Registration/Breakfast
9:00AM SESSION 1: MATERIAL SCIENCE I
  Session Chair - Ellie Abrons
  9:10AM SPEAKER 1: Rizkallah Chaaraoui - Ali Askarinejad
  Anisoptera: Anisopteran Deformation and the Latent Geometric Patterns of Wood Envelopes
  9:25AM SPEAKER 2: Ata Sina - Shannon Pitt - Annalisa Meyboom - Mark Martinez - James Olson
  Thermocatalytic Metafolds
  9:40AM SPEAKER 3: Glenn Wilcox - Anca Trandafirescu
  C-Lith: Carbon Fiber Architectural Units
  9:55AM SPEAKER 4: Faysal Tabbarah
  Things in the Anthropocene
  10:05AM DISCUSSION Round Table
10:25AM BREAK Coffee Break

21c Museum Hotel C 10:45AM SESSION 2: MATERIAL SCIENCE II
  Session Chair - Filip Tejchman
  10:55AM SPEAKER 1: Ahmed Hussein
  Sandworks: Sand Tectonic Prototype
  11:10AM SPEAKER 2: Kam-Ming Mark Tam - Caitlin Mueller
  Stress Line Generation for Structurally Performative Architectural Design
  11:25AM SPEAKER 3: Ming Tang - Mara Marcu
  Data Mapping and Ornament
  11:40AM SPEAKER 4: Ellie Abrons - Adam Fure
  Texture Tactonics
  11:50AM DISCUSSION Round Table
10:25AM BREAK Coffee Break

THURSDAY 22ND - AFTERNOON
BIOMIMESIS

21c Museum Hotel C 1:45PM SESSION 3: BIOMIMESIS I
  Session Chair - Adam Fure
  1:55PM SPEAKER 1: Ali Askarinejad - Rizkallah Chaaraoui
  Spatial Nets: The Computational and Material Study of Reticular Geometries
  2:10PM SPEAKER 2: Tim Ireland
  A Cell Inspired Model of Configuration
  2:25PM SPEAKER 3: Dennis Lagemann
  Abstract
  2:40PM SPEAKER 4: Marco Poletto - Claudia Pasquero
  Urban Algae Polly
  2:50PM DISCUSSION Round Table
1:30PM BREAK Coffee Break

21c Museum Hotel C 3:30PM SESSION 4: BIOMIMESIS II
  Session Chair - Nancy Diniz
  3:40PM SPEAKER 1: Ehsan Baharlou - Achim Menges
  Towards a Behavioral Design System: An Agent-based Approach for Polygonal Surface Structures
  3:55PM SPEAKER 2: Elif Erdine
  Generative Processes in Tower Design: Simultaneous Integration of Tower Subsystems Through Biomimetic Analogies
  4:10PM SPEAKER 3: Laia Mogas Soldevila - Jorge Duro Royo - Neri Oxman
  Form Follows Flow: A Material-driven Computational Workflow For Digital Fabrication of Large-Scale Hierarchically Structured Objects
  4:25PM SPEAKER 4: Jenny Sabin - Martin Miller - Daniel Cellucci
  ColorFolds - eSkin + Kirigami: From Cell Contractility to Sensing Materials to Adaptive Foldable Architecture
  4:35PM DISCUSSION Round Table
1:30PM BREAK Coffee Break

UC DAAP Reed Gallery R 5:30PM EXHIBITION Exhibition Opening Lecture Reception Hors-d’oeuvres
UC DAAP Blue Box X 6:30PM KEYNOTE Keynote Lecture by Cristina Diaz Moreno - Efrien Garcia Grinda (amid.cero9)
UC DAAP Room 4400 O 8:00PM SHUTTLE Shuttle Service to 21c Museum Hotel

Aronoff Center: 5/3rd Bank Black Box Theater
12:30PM KEYNOTE Keynote Lecture by Stefan Behnisch

1:30PM BREAK Coffee Break
FRIDAY 23RD - MORNING
GEOMIMESIS / LANDFORMING

21c Museum Hotel C 8:00AM BREAKFAST Breakfast provided by 21c Metropole
9:00AM SESSION 5: GEOMIMESIS / LANDFORMING Session Chair - Dana Cupkova
9:10AM SPEAKER 1: Philip Belesky - Rosalea Monacella - Jane Burry - Mark Burry A Field in Flux
9:25AM SPEAKER 2: Elissa Ross and Daniel Hambleton Exact Face-offsetting for Polygonal Meshes
9:40AM SPEAKER 3: James Melsom - Ilmar Hurkxkens - Christophe Girot Directed Deposition: Exploring the Role of Simulation and Design in Erosion and Landslide Processes
10:05AM DISCUSSION Round Table
10:25AM BREAK Coffee Break

21c Museum Hotel C 10:45AM SPECIAL PANEL Pioneers of Design Computation Panel Moderator - Robert Aish
Panelists: Chuck Eastman - Don Greenburg - Tom Maver

FRIDAY 23RD - AFTERNOON
ROBOTICS / RESPONSIVE ENVIRONMENTS

21c Museum Hotel C 1:30PM SESSION 6: ROBOTICS / RESPONSIVE ENVIRONMENTS I Session Chair - Adam Marcus
1:45PM SPEAKER 1: Michael McKay Relative Positioning
2:00PM SPEAKER 2: José Pedro Sousa - Germano Veiga - António Paulo Moreira Robotic Fabrication with Cork: Emerging Opportunities in Architecture and Building Construction
2:15PM SPEAKER 3: Johannes Braumann - Sigrid Brell-Cokcan Towards Adaptive Robot Control Strategies
2:45PM SPEAKER 5: Future Cities Lab / Jason Johnson - Nataly Gattegno - Ripon DeLeon Lightswarm
3:05PM DISCUSSION Round Table
3:25PM BREAK Coffee Break

21c Museum Hotel C 3:30PM SESSION 7: ROBOTICS / RESPONSIVE ENVIRONMENTS II Session Chair - Mara Marcu
3:40PM SPEAKER 1: Nancy Diniz The Anatomy of a Prototype
4:10PM SPEAKER 3: Michael Silver (Un) Building Codes: Architecture and the Limits of Artificial Intelligence
4:40PM SPEAKER 5: Gianluca Tabellini Mycalium Tectonics
4:55PM DISCUSSION Round Table
5:15PM SHUTTLE Shuttle Service to UC DAAP SAID
6:00PM KEYNOTE Keynote Lecture by Francois Roche
7:30PM SHUTTLE Shuttle Service to 21c Museum Hotel
SATURDAY 24TH - MORNING
ROBOTICS / RESPONSIVE ENVIRONMENTS
ENVIRONMENTAL PARAMETRICS / ECOLOGICAL URBANISM

8:00AM Breakfast provided by 21c Metropole

9:00AM SESSION 8: ROBOTICS/RESPONSIVE ENVIRONMENTS III
Session Chair - Sang Lee

9:10AM SPEAKER 1: Sean Ahlquist
Social Sensory Architectures: Articulating Textile Hybrid Structures for Multi-sensory Responsiveness and Collaborative Play

9:25AM SPEAKER 2: Chandler Ahrens
Klimasymmetry: Locating Thermal Tactility

9:40AM SPEAKER 3: Stanislav Roudavski
Sketching with Robots: Props for Autonomous Architecture

9:55AM SPEAKER 4: Nicole Koltick
Autonomous Botanist: The Poetic Potentials of a New Robotic Species

10:10AM DISCUSSION Round Table

10:30AM BREAK Coffee Break

21c Museum Hotel C 10:45AM SESSION 10: ENVIRONMENTAL PARAMETRICS II
Session Chair - Anton Harfmann

10:55AM SPEAKER 1: Dongil Kim - Seojoo Lee
A Systematized Aggregation with Generative Growth Mechanism in Solar Environment

11:10AM SPEAKER 2: Ramon van der Heijden - Evan Levelle - Martin Riese
Parametric Building Information Generation for Design and Construction

11:25AM SPEAKER 3: Kelly Winn
Transient Thermal Surfaces and Developmental Form for Tactile Surfaces

11:40AM SPEAKER 4: Julie Larsen - Roger Hubeli
dis-FIGURE

12:10PM SHUTTLE Shuttle Service to UC DAAP SAID

Anonoff Center: 5/3rd Bank
Black Box Theater

8:00AM Breakfast provided by 21c Metropole

9:00AM SESSION 9: ENVIRONMENTAL PARAMETRICS I
Session Chair - Stephen Slaughter

9:10AM SPEAKER 1: Yassin Ashour - Branko Kolarevic
Heuristic Optimization in Design

9:25AM SPEAKER 2: Navid Hatefnia - Marjan Ghobad
Computing Outdoor Comfort Based on CBE Thermal Comfort Calculation for Ashrae-55

9:40AM SPEAKER 3: Wassim Jabi
The Potential of Non-manifold Topology in the Early Design Stages

9:55AM SPEAKER 4: Filip Tejchman
The Cave is the Campfire: Thermal Forms in Architecture

10:10AM DISCUSSION Round Table

10:30AM BREAK Coffee Break

10:45AM SESSION 11: ECOLOGICAL URBANISM I
Session Chair - Mark Mistur

10:55AM SPEAKER 1: Stefano Andreani - Allen Sayegh
Parametric Spatial-Structural Optimization in the Conceptual Design Stage of Projects

11:10AM SPEAKER 2: Aurgho Jyoti
High Rise Morphologies: Architectural Form Finding in a Performative Design Search Space of Dense Urban Contexts

11:25AM SPEAKER 3: Philip Speranza - Robert Kiesler - Jiawei Vincent Mai
Social Interaction and Cohesion Tool: A Dynamic Design Approach for Barcelona’s Superilles

11:40AM SPEAKER 4: Michael Fox - Victor Zhang
Shattered Communities

12:10PM SHUTTLE Shuttle Service to UC DAAP SAID/Lunch is provided
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<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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<tr>
<td>12:45</td>
<td>UC Reed Extension</td>
<td>LUNCH Lunch is provided</td>
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<td>1:15PM</td>
<td>UC DAAP Room 5401</td>
<td>AWARDS LECTURE Acadia 2015 Awards Lecture by Andrew Kudless</td>
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<td>1:45PM</td>
<td>UC DAAP Room 5401</td>
<td>AWARDS LECTURE Acadia 2015 Awards Lecture by Kieran Timberlake</td>
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<td>SESSION 12: ECOLOGICAL URBANISM II Session Chair - Ming Tang</td>
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<td>SPEAKER 1: Biayna Bogosian - Maider Liaguno Sensing Urban Microclimates</td>
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<td>SPEAKER 3: Jose Sanchez Temporal and Spatial Combinatorics in Games for Design</td>
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<td>3:10PM</td>
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<td>SPEAKER 4: Richard Garber - Zeyuan Qiu - Sabrina Raia Zhangdu Lake Farm</td>
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<td>3:40PM</td>
<td>UC Reed Extension</td>
<td>BREAK Coffee Break</td>
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<td>4:00PM</td>
<td>UC DAAP Room 5401</td>
<td>AWARDS LECTURE Acadia 2015 Awards Lecture by Achim Menges</td>
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<td>4:30PM</td>
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<td>SPECIAL PANEL EcoDIVERSITY Exhibition Round Table</td>
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<td>TOUR University of Cincinnati Campus Tour</td>
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<td>6:00PM</td>
<td>UC Reed Extension</td>
<td>RECEPTION Lecture Reception and Hors-d’oeuvres</td>
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<td>6:30PM</td>
<td>UC DAAP Room 5401</td>
<td>KEYNOTE Keynote Lecture by Nader Tehrani</td>
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<td>7:30PM</td>
<td>UC DAAP Atrium/ 4000 Level</td>
<td>DINNER ACADIA 2015 Dinner / Awards Ceremony</td>
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<td>9:30PM</td>
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<td>SHUTTLE Shuttle Service to 21c Museum Hotel</td>
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LOCATIONS - ARONOFF CENTER 5/3 Bank Theatre

LOCATIONS - ARONOFF CENTER BASEMENT

B Aronoff Center: 5/3 Bank Black Box Theatre

H Aronoff Center: Reception Hall
Cristina Díaz Moreno and Efrén Gª Grinda are both architects and founders of the Madrid-based office amid.cero9. They are Unit Masters in the Diploma sequence at the Architectural Association School of Architecture (AA) in London and are also directing an Option Studio at the Harvard Graduate School of Design. They both held professorships in Vienna at the Institut für Kunst und Architektur Akademie der Bildenden Künste from 2013 to 2014. While teaching together in Madrid from 1998 to 2013 (in parallel at ETSAM and ESAYA UEM) they have been visiting professors and lecturers throughout Europe, Asia and the United States. Their projects have been widely disseminated, and they have won more than forty prizes in national and international competitions. Their projects and writings of the last fifteen years were documented in 2014 in an exhibition at the AA and published in “Third Natures, A Micropedia”. They have recently built the renowned Institución Libre de Enseñanza headquarters in Madrid.

Behnisch Architekten was founded in 1989 and works out of three offices – Stuttgart, Munich, and Boston. These offices are directed by Stefan Behnisch and his partners Robert Hösle (Munich), Robert Matthew Noblett (Boston) and Stefan Rappold (Stuttgart). From the outset, the social dimension of architecture has been a fundamental aspect of the firm’s design philosophy. The search for innovative and sustainable solutions making optimum use of natural resources has produced a rich variety of buildings, each of which responds to specific user requirements and site conditions. Behnisch Architekten realized such signature projects as the LEED Platinum Genzyme Center in Cambridge, MA (2004); the new Unilever Headquarters (2009) and the Marco Polo Tower in Hamburg’s HafenCity (2010). The most recently completed major construction projects are the John and Frances Angelos Law Center in Baltimore, MD, USA (2013) and the new conference hall for the World Intellectual Property Organization WIPO in Geneva (2014). Over the years the practice has established an international reputation as a firm that combines design excellence with advanced expertise in sustainability.
NADAAA is a Boston-based architecture and urban design firm led by Nader Tehrani in collaboration with partners Katherine Faulkner and Daniel Gallagher. NADAAA has evolved over three decades as a multi-disciplinary practice dedicated to bridging between design disciplines: from landscape to urbanism, architecture to interiors, and industrial design to furniture. The work of NADAAA demonstrates a commitment to new forms of knowledge through making. With an eye towards integrated thinking, we enter the discourse on technology, aesthetics, and building protocols as part of a holistic process.

Design excellence is core to all pursuits and the firm boasts sixteen Progressive Architecture Awards, the 2007 Cooper-Hewitt National Design Award in Architecture, the 2003 American Academy of Arts and Letters Architecture Award, the 2007 United States Artists Award, the 2003 Harleston Parker Award, the 2012 Holcim Award, the 2014 Holcim Foundation Sustainability Award, as well as multiple Chicago Athenaeum, BSA and ID Awards. In 2013 and 2014, NADAAA was ranked number one in design in Architect Magazine’s Top 50 Firms in the United States.

Laboratory of research (New-territories.com) Institute for contingent scenario (Bangkok) MindMachineMakingMyths LLC (NYC). Through those different structures, their architectural works and protocols seek to articulate the real and/or fictional, the geographic situations and narrative structures that can transform them. Architectural designs and processes have been shown at, among other places, ICA, Mori Art Museum, SF MOMA, Centre Pompidou, MAM, Tate Modern, ArchiLab, at the Venice Architecture Biennales, French pavilion in 90, 96, 2000, international section in 2000-04-08-10, and the last two in 2012 (Dark Side, Slovenian Pav., Writing Architecture) and in 2014 in Bembo Pavilion. F. Roche was guest professor among others at Bartlett, TU, ES-ARQ, UPENN, Angewandte, USC, GSAPP..., and Camille Lacadee at Thammassat, India (Chulalongkorn) and both they are guest at RMIT, Michigan Ann-Arbor in 2014-15.
Philippe Rahm is a Swiss architect, Principal in the office of Philippe Rahm architectes, based in Paris, France. His work, which extends the field of architecture from the physiological to the meteorological, has received an international audience in the context of sustainability. He has taught architectural design at the Harvard Graduate School of Design. In 2002, Mr. Rahm was chosen to represent Switzerland at the 8th Architecture Biennale in Venice and was one of the 25 Manifesto’s Architects of Aaron Betsky’s 2008 Architectural Venice Biennale. He has lectured widely, including at Yale, Cooper Union, UCLA, and ETH Zürich. His recent work includes the First Prize for the seventy hectares Taichung Gateway Park in Taiwan currently under construction. Monographic book include Physiological Architecture (Birkhäuserm 2002), Distortions (HYX 2005), Environ(ne)ment: Approaches for Tomorrow (Skira 2006), Architecture Météorologique (Archibooks 2009) and Constructed Atmospheres (Postmedia, Milan 2014).

KEYNOTE

CLIMATIC ISLANDS

Philippe Rahm architectes
Philippe Rahm

The architecture proceeds by gradation of intensity, climate, gradually reducing the uncomfortable climate settings to make them comfortable outside in the interior; gradation colder warmer, wetter in the drier, the brighter the darkest. The modes of these contemporary construction divides gradations using layered construction elements such as the blind, waterproofing, heat insulation, the vapor barrier, which thicken or refine, add or dilate to adjust more or less intensely the external environment to achieve the required level within climate. This climate mitigation temperature, humidity, light is fundamental in the architecture and becomes the design strategy for the Collection’s Center of the National Museum Switzerland requesting climate interiorities precisely defined in five areas which stability requirements of the temperature and humidity are required for the preservation of works of art and restoration work. We can establish a gradation of intensity between the exterior and interior of the climatic parameters of temperature, humidity, light, according to the following gradation, from the more intense to the less intense: from the warmer (24°C) to the coldest (16°C) / wetter (85% Relative Humidity) to the driest (45%RH) / the lighter (10 000 lux) to the darker (0 lux).

CLIMATE LAYERING

Our project literally shapes this gradation, establishing five bubbles differentiated in their atmosphere temperature, relative humidity, brightness, which fit one inside the other like Russian dolls. To place these climatic bubbles (BLASEN A-D), we modeled with a computer program CFD (Computational Fluid Dynamics) the behavior of the temperature inside according to the influence of external energy input. This computer model shows us gradations of temperature between colder areas, northwest and bottom of the building and warmer areas, southeast and upper and then allows us to place the atmospherical bubble (BLASE A-D).

INFRARED MEDIATIION FACADE

The facade is composed of elements aluminum whose surface pass through gradations between the golden up the building and silver down the building depending of the amount of solar radiation. In the manner of blanket, golden absorbs infrared heat and light, while silver will reflect the light and heat. Following precisely the gradients irradiation of sunlight on the building during the day and year depending on the computer model, we arrive at a precise positioning of gold and silver panels, with a greater density of golden panels at the bottom and north of the building while the top and the south façade will receive a greater density of silver panels in order to optimize the use of natural and artificial energy of the building.

AWARD

Founded in 1984, KieranTimberlake is internationally recognized architecture firm noted for research, innovation, and inventive design. Our work includes the programming, planning, and design of new structures as well as the transformation of existing buildings, with special expertise in education, government, arts and culture, civic, and residential projects. We seek ways to improve the art, quality, and craft of architecture through research into new materials, processes, assemblies, and products. This pursuit includes the development of application-specific environmental analysis and prediction tools, building and environmental monitoring, novel building assemblies, and more. Common to all our work is that each project begins with a question and continues its development within a culture of questioning, ensuring that design results from deep investigation. We promote a transdisciplinary design process that inspires creativity and fosters a culture of sharing ideas, knowledge, and techniques.
Branko Kolarevic is a Professor of Architecture at the University of Calgary Faculty of Environmental Design, where he also holds the Chair in Integrated Design and co-directs the Laboratory for Integrative Design (LID). He has taught architecture at several universities in North America and Asia and has lectured worldwide on the use of digital technologies in design and production. He has authored, edited or co-edited several books, including “Building Dynamics” (with Vera Parlac), “Manufacturing Material Effects” (with Kevin Klinger), “Performativ Architectures” (with Ali Malkawi) and “Architecture in the Digital Age.” He is a past president of the Association for Computer Aided Design in Architecture (ACADIA) and a recipient of the ACADIA Award for Innovative Research in 2007. He was also recently President of the Canadian Architectural Certification Board (CACB), which accredits professional programs in architecture in Canada. He holds doctoral and master's degrees in design from Harvard University and a diploma engineer in architecture degree from the University of Belgrade.

Andrew Kudless is a designer based in San Francisco where he is an Associate Professor at the California College of the Arts. In 2004, he founded Matsys, a design studio exploring the emergent relationships between architecture, engineering, biology, and computation. He holds a Master of Arts in Emergent Technologies and Design from the Architectural Association and a Master of Architecture from Tulane University. The work of Matsys has been exhibited internationally and is in the permanent collections of the San Francisco Museum of Modern Art, the Centre Pompidou in Paris, and the FRAC Centre in Orleans, France.
Achim Menges is a registered architect and professor at Stuttgart University, where he is the founding director of the ICD Institute for Computational Design and the co-director of the ITech MSc programme. He also is Visiting Professor in Architecture at Harvard University’s Graduate School of Design.

He graduated with honors from the AA School of Architecture in London where he subsequently taught as Studio Master of the Emergent Technologies and Design Graduate Program and as Unit Master of Diploma Unit 4. In addition he was Professor for Form Generation and Materialisation at the HfG Offenbach University for Art and Design in Germany.

Achim Menges teaching and research focuses on the development of integral design processes at the intersection of design computation, biomimetic engineering and robotic fabrication that enables a highly articulated, performative built environment. His work is based on an interdisciplinary approach in collaboration with structural engineers, computer scientists, material scientists and biologists. He has published several books on this work and related fields of design research, and he is the author/co-author of numerous articles and scientific papers. His projects and design research have received many international awards and have been exhibited worldwide.

Skylar Tibbits is the director of the Self-Assembly Lab housed at MIT’s International Design Center. The Self-Assembly Lab focuses on self-assembly and programmable material technologies for novel manufacturing, products and construction processes.

Skylar is faculty in the Department of Architecture where he teaches graduate and undergraduate design studios and co-teaches How to Make (Almost) Anything, a seminar at MIT’s Media Lab with Neil Gershenfeld. Skylar was recently named a 2015 National Geographic Emerging Explorer, 2014 Inaugural WIRED Fellow, 2014 Gifted Citizen, 2013 Fast Company Innovation by Design Award, 2013 Architectural League Prize, The Next Idea Award at Ars Electronica 2013, Visionary Innovation Award at the Manufacturing Leadership Summit, 2012 TED Senior Fellow and was named a Revolutionary Mind in SEED Magazine’s 2008 Design Issue.

Previously, he has worked at a number of renowned design offices including: Zaha Hadid Architects, Asymptote Architecture and Point b Design. He has designed and built large-scale installations at galleries around the world, has been published extensively in outlets such as the New York Times, Wired, Nature, Fast Company as well as various peer-reviewed journals and books. Skylar has a Professional Degree in Architecture and minor in experimental computation from Philadelphia University. Continuing his education at MIT, he received a Masters of Science in Design Computation and a Masters of Science in Computer Science under the guidance of; Patrick Winston, Terry Knight, Erik Demaine and Neil Gershenfeld. Initiated in 2007, Skylar Tibbits is also the founder and principal of a multidisciplinary design practice, SJET LLC.
This panel session brings together three of the most influential pioneers whose work has defined architectural computing. The session will provide an opportunity to discuss issues of historic, present and future interest, ranging over research, practice and education. The central theme of the panel discussion is the role of software in architecture: at its best it is an enabler of the intellect and the imagination, but at other times software appears to act as a conservative constraint on creative expression. Amongst the three panelist are the founder members of ACADIA, eCAADe and CAAD Futures and together they bring a unique perspective on the issue of architectural computing.

**Chuck Eastman:**

Chuck Eastman is Professor, College of Architecture and the College of Computing at Georgia Tech and Director, Digital Building Lab. As a pioneer of AEC CAD, he developed experimental solid and parametric modeling systems for the building industry starting in the early 1970’s, including one of the first solid modelers in 1974 and what would be called to-day a BIM authoring tool. He has consulted for Boeing, General Motors, SDRC and others on solids and parametric modeling. Previously, he was a faculty member at Carnegie-Mellon University and UCLA. In 1982 he co-founded Formtek, a parametric modeling start-up, which was eventually sold to Lock- heed Corporation. In his current position at Georgia Tech, he directs the Digital Building Laboratory which is sponsored by fifteen AEC companies including Bechtel, Tumer Construction, DPR, Shanska, Beck, HOK, Perkins-Will, Oldcastle, Component Assembly Systems, Autodesk, Tekla, BIMsmart, Nemetschek Vectorworks and the Smithsonian Institute and the Charles Pankow Foundation, the American Institute of Steel Construction Laboratory which is sponsored by fifteen AEC companies including Bechtel, Tumer Construction, DPR, Shanska, Beck, HOK, Perkins-Will, Oldcastle, Component Assembly Systems, Autodesk, Tekla, BIMsmart, Nemetschek Vectorworks and the Smithsonian Institute. In addition, Eastman carried out research for GSA for five years automating design reviews, especially for courthouses. He currently has projects with the Precast Concrete Institute and the Charles Pankow Foundation, the American Institute of Steel Construction and the American Concrete Institute, defining BIM exchange standards for these industry domains. He is also co-author of the BIM Handbook, now translated into Mandarin, Korean and Portuguese (in Brazil). He is author of more than 100 papers and conference presentations dealing with BIM, and its transformative impacts on the AECO industries.

Issues for discussion:

**History:**

In the earliest days of CAD (1970s), all areas were integrated - mechanical, aerospace, process industries electronics, buildings, ships. All had shared modeling issues: display, modeling geometry, user interaction. The Design Automation Workshops, organized by IIEES, had sessions in all the above areas. As the field grew, separate organizations emerged and the open collaboration slowly turned into stovepipes. Some business areas saw the strategic value of virtual design and invested in tailoring CAD to its needs – electronics, and manufacturing in particular and quickly worked the technical issues to mod-e the object itself, not the drawing representation of the object. In the early 1980s the various fields and industries adopted one of these basic approaches. Architecture and most construction adopted the model the drawing approach, while electronic, manufacturing and aerospace adopted virtual objects as their output. It took building industry another 25 years to span that transition.

**Semantics:**

What are the semantics of a building? What do the objects and composition “say”? Some architects lament that BIM supports construction aspects of design, not the historical, cultural and intentional aspects they are interested in. BIM can support cost estimation, it can do a carbon count for all materials. Why can’t it address historical features and cross references of symbolic and cultural aspects? Is an aesthetic model concept that has features reflecting historical analogies? The construction model has its purpose; the historical model has its purpose. BIM can evolve to support many kinds of interpretation.

**Design:**

How can computer-based simulation and performance evaluation inform design decisions which affect the cost/performance characteristics of emerging design solution? He remains (increasingly) optimistic that R+D in the field – in academia and practice – will answer these questions. He is also co-founder of the SmartGeometry group.

**Issues for discussion:**

**Architectural curricula:**

One of the important issues that I think is worthwhile is to talk about the topics which are necessary for architectural education and future practice. Not only do I think that it is so difficult to change architectural curricula but today’s students do not learn the fundamentals behind the currently available software environments. They have great difficulty in being able to predict their future changes. In this respect, discussing what the three of us and others tried to do in the 60’s, 70’s, and 80’s, and the resistance which we had, is important for the next generation of architects to understand. It is not that we did anything special but today they can look at the folly of the resistance of the profession and why we are in a position where the AIA and other organizations inhibit progress.

**Rendering:**

A second issue which I feel qualified to talk about is certainly rendering, the future of rendering, and what is necessary to make it an easier design tool to use. A particular emphasis would be on the importance of “light” and “space” and the ability to walk through three dimensional environments.

**Computing environments:**

A third topic, which would be easy for me to merge with either of the first two would be the change in the computing environments, not just the exponential increase in computer power but the portions of the digital world which have not changed as rapidly.

**Tom Maver:**

Tom Maver is currently Research Professor in the Mackintosh School of Architecture at the Glasgow School of Art. He is also Emeritus Professor of the University of Strathclyde where, for some 40 years, he was Director of the Architecture and Building Aids Computer Unit, Strathclyde (ABACUS) – a research group that pioneered the application of com-puting to architectural design and received the top UK award of 5+ in the UK Research Assessment Exercise. Tom is an Honorary Fellow of the Royal Incorporation of Architects in Scotland and has life-time/service awards from the DRD, IRBPA, eCAADe, etc. He founded eCAADe and CAADFutures.

**Issues for discussion:**

**Design Decision making:**

How can computer-based simulation and performance evaluation inform design decisions which affect the cost/performance characteristics of emerging design solution? He remains (increasingly) optimistic that R+D in the field – in academia and practice – will answer these questions.

**Robert Aish (chair)**

Robert Aish is Visiting Professor of Design Computation at the Bartlett School of Architec-ture. Previously he was Director of Research at Bentley where he lead the development of Generative Components and Director of Software Development at Autodesk where he lead the development of DesignScript. He is also a cofounder of the SmartGeometry group.
Ecodiversity, Computation and Identity

The School of Architecture and Interior Design, at the University of Cincinnati's College of Design Architecture Art and Planning is honored to host ACADIA's 2015 Annual Conference and convene, simultaneously, an exhibition and symposium, as an expansion of the conference theme "Computational Ecologies: Design in the Anthropocene." Our objective is to address the role of the individual within the vast ecology of computation, through the lens of how one's geography, identity, and philosophy influences the positioning of their work in reaction to, or in formation with the emergence of the Anthropocene.

As the conference's host committee, we are committed to expanding the forum for discussion of ACADIA, and so in conjunction with ACADIA's usual compendium of workshops, presentations, and panel discussions, we are pleased to contribute an exhibition featuring the work of designers whose productive output engages the topic of identity.

By providing the 35th Annual ACADIA Conference with an auxiliary exhibition and symposium, we hope to interject into the discussion of computational design in architecture, voices that advance the discourse from a position not typically given a platform by the academy nor the profession, allowing for a forum that both questions, and offers alternative perspectives in computational design.

Style and Identity

The prescription for inclusion in today's architectural avant-garde is the virtuous execution of advanced computational technique in the design, representation and fabrication of work, realized or speculative. The reigning pinnacle of the contemporary vanguard, both in practice and in discourse, is Parametricism. As defined by the movements advocate general, Patrik Schumacher, the development of Parametricism "was facilitated by the attendant development of parametric design tools and scripts that allow the precise formulation and execution of intricate correlations between elements and subsystems. The shared concepts, computational techniques, formal repertoires, and tectonic logics that characterize this work are crystallizing into a solid new hegemonic paradigm for architecture." For Schumacher, the emergence of design technique predicated on computation was not only mere methodology, but also an epoch and continuation of the early modernist discourse on "style". Ingeborg Rocker in her Log essay “Apropos Parametricism: If, In What Style Should We Build?” (Fall 2009) writes: "For Schumacher, styles are design research programs... Styles serve as a cohering research program that allows for the construction of a systematic series of design experiments. Those experiments are based on methodological rules defining paths of research to avoid (negative heuristics) and paths to pursue (positive heuristics). For him, today's architecture is marked with a new style, a new design research program, the style of parametricism, the first large style that occurred after modernism."

So in today's dialectic, contemporary practice in advanced computation mandates an aggressive revisionist understanding of the translation of the modernists' project from its inception to the present. What's not clear is how the modernists' agenda, as canonized in the series of conventions held between 1928 and 1959 by the Congrès International d'Architecture Moderne, translate as well. An allusion to this problem was addressed in the one day conference held at the Red Cat Theater in Los Angeles in 2013, "The Politics of Parametricism, Digital Technologies and the Future(s) of Sociality." In a press release for the then pending conference, Matthew Poole & Manuel Shvartzberg elaborated on these issues in their description of the meeting's topic engagement: To date, critiques of the proliferation of parametric design processes have focused on the central issue of a technocratization of social relations intrinsic to the Parametricist design ethos. These critiques principally observe and raise alarm that Parametricist design processes actively quantify issues in their description of the meeting's topic engagement: To date, critiques of the ---
WORKSHOPS

WORKSHOP 1 - OPEN GEO DATA + PERFORMANCE by Core Studio Thornton Tomasetti

WORKSHOP 2 - BIO-AGENCY by Igor Pantic and Soomeen Hahm with Will Walker and Formlabs

WORKSHOP 4 - DYNAMO: INTRO/ANALYSIS/OPTIMIZATION by Autodesk

WORKSHOP 6 - COMPUTATIONAL BIM IN PRACTICE by Grimshaw Architects and NBBJ

WORKSHOP 7 - PROTOTYPING EXPERIENTIAL FUTURE by Woods Bagot and Core Studio Thornton Tomasetti

WORKSHOP 9 - KANGAROO2 FORM-FINDING AND CONSTRAINT BASED MODELLING by Daniel Piker/ McNeel

WORKSHOP 10 - ROBOTIC WOODCRAFT by Sigrid Brell-Cokcan, Johannes Braumann, Daniel Goldbach, and Elisa Lublasser
## 1.1 Keynote Lecturers

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<thead>
<tr>
<th>15</th>
<th>AMID.cero9</th>
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<tbody>
<tr>
<td></td>
<td>Cristina Díaz Moreno and Efrén Gª Grinda</td>
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</table>

**Subcultures: Third Natures**

<table>
<thead>
<tr>
<th>21</th>
<th>Behnisch Architekten</th>
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<tbody>
<tr>
<td></td>
<td>Stefan Behnisch</td>
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**WIPO Conference Hall**

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<tr>
<td></td>
<td>Nader Tehrani</td>
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**Melbourne School of Design**

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<tr>
<th>31</th>
<th>New-Territories</th>
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<td></td>
<td>Francois Roche</td>
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**'mythomaniaS'**

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<tr>
<th>37</th>
<th>Philippo Rahm Architects</th>
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<td>Philippo Rahm</td>
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**Climatic Islands**

## 1.2 Invited Exhibitors

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<tr>
<td></td>
<td>Alex Chew, Max Kuo, Danielle Wagner</td>
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**Gastropolis**

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<tr>
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<th>CASE (Center for Architecture, Science and Ecology)</th>
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<tr>
<td></td>
<td>Bess Vertemeyer, Anna Dyson, Brandon Andow</td>
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**Display Systems within Dynamic Built Ecologies**

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<th>CODIA</th>
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<tr>
<td></td>
<td>Caroline O’Donnell</td>
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**Urchin: Impossible Circus + Goosebumps**

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<tr>
<th>55</th>
<th>EASTON+COMBS</th>
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<tr>
<td></td>
<td>Rona Easton and Lonn Combs</td>
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**Mirage Garden**

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<th>Endemic</th>
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<td></td>
<td>Clark Thenhaus</td>
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**The Belvedere**

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<th>form ula</th>
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<tr>
<td></td>
<td>Richard Sarrach</td>
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**Where have I felt this before?/Instruments of Simulation**

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<th>69</th>
<th>Geofutures @ Rensselaer School of Architecture</th>
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<tbody>
<tr>
<td></td>
<td>Chris Perry (director)</td>
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**Ted Nga, Fleet Hover, Lydia Xynogala, Kelly Winn, Alexandra Rempel, Nancy Deniz (faculty)**

**Recent Research**

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**WaterJelly 2.0**

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<th>HANNAH</th>
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<tr>
<td></td>
<td>Sasa Zivkovic</td>
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**Toward the Anthropocene: Colossal Naturality in Disordered Territories**

## 1.3 Invited Installations

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<th>Supranatural: Atlas of Rural Protocols of the American Midwest and the Argentine Pampas</th>
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<tr>
<td></td>
<td>Ciro Najle and Luis Ortega</td>
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## 1.2 Invited Exhibitors

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<tr>
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<tr>
<td></td>
<td>Cathryn Dwyre and Chris Perry</td>
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**The Anthropocene Folly**

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<th>Terreform ONE</th>
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<tr>
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<td>Mitchell Joachim</td>
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**PLUG-IN ECOLOGY: Urban Farm Pod with Agronomy**

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<th>Ruy Klein</th>
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<td>David Ruy and Karel Klein</td>
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## 1.3 Invited Installations

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<th>BETA-Field</th>
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<tr>
<td></td>
<td>Michael Leighton Beaman, Zaneta Harg, Reciprocal Artifacts</td>
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<tr>
<th>111</th>
<th>Jennifer Bonner and Volkan Alkanoglu</th>
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<td>Issues of SERIALITY: Domestic Hat and Thick Extrusions</td>
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## 1.3 Invited Installations

<table>
<thead>
<tr>
<th>115</th>
<th>Peter Anderson and Justin Diles</th>
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<tr>
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<td>Active-Passive Shelter: Architecture + Materials Science &amp; Engineering</td>
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## 1.3 Invited Installations

<table>
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<tr>
<th>119</th>
<th>Matthew Gillis</th>
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<tr>
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<td>Three Dancers</td>
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## 1.3 Invited Installations

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<tr>
<th>123</th>
<th>Catherine Elizabeth Richards</th>
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## 1.3 Invited Installations

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<tr>
<td></td>
<td>Christina Leigh Geros, Lee-Su Huang, Gregory Thomas Spaw, Jakob Marsico</td>
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**Intr(  )Scapes**

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<td>Isochronic Mountain: São Paulo (O Morrow da Esperança Paulista)</td>
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## 1.3 Invited Installations

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<tr>
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<td>Disruptive Continuity: Solutions in (Form)ed via Iterative Digital Process</td>
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## 1.3 Invited Installations

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<th>Rachel Vroman and Jan Kokol</th>
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## 1.3 Invited Installations

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<td>Wendy Fok</td>
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**Projective Dualism 2.0**

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<th>Shai Yeshayahu and Philip Zawaras</th>
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<tr>
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<td>Connecting Dots</td>
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## EXHIBITIONS

### PEER REVIEWED PROJECTS

<table>
<thead>
<tr>
<th>Project</th>
<th>Authors/Contributors</th>
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<tbody>
<tr>
<td>AMP; the Grid, the Cloud, and the Detail</td>
<td>Chandler Ahrens</td>
</tr>
<tr>
<td>Klimasymmetry, Locating Thermal Tactility</td>
<td>Gernot Riether + Andrew John Wit</td>
</tr>
<tr>
<td>Underwood Pavilion</td>
<td>Ming Tang + Mara Marcu</td>
</tr>
<tr>
<td>Transmuted Tectonics</td>
<td>Dongil Kim + Colin Searles</td>
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<tr>
<td>Dense Ecologies</td>
<td>Faysal Tabbarah</td>
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<tr>
<td>The Strange Wall</td>
<td>Darrick Borowski</td>
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<tr>
<td>GreenLab: A Phyllotaxic Lattice Shell</td>
<td>Jeffrey Maeshiro</td>
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<td>Scan Fab Lamps</td>
<td>Rocker Lange Architects</td>
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<tr>
<td>Shanghai Lilong Tower Urbanism: Towards an Urbanism of Parametric Preservation</td>
<td>Chris Knapp, Jonathan Nelson + Andrew Kudless</td>
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<tr>
<td>Arclight</td>
<td>Gabriel Kaprielian</td>
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<tr>
<td>Clay Bodies, Computation, and Fabrication</td>
<td>Brian Peters</td>
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<td>Solar Bytes Pavilion</td>
<td>Stefanie Holzheu + Sang Lee</td>
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<td>Perceptual Automaton</td>
<td>Ellie Abrons + Adam Fure</td>
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<tr>
<td>Texture Tectonics</td>
<td>Jenny Sabin, Martin Miller + Daniel Cellucci</td>
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<tr>
<td>A Foldable Architecture: From Cell Contractility to Sensing Materials to Adaptive Foldable Architecture</td>
<td>Ari3Dne: The Principles of Self-organization to Develop an Architectural System</td>
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<td>RoboPinch</td>
<td>Marco Poretto + Claudia Pasquero</td>
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<td>Urban Algae Folly</td>
<td>Gianluca Tabellini</td>
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<tr>
<td>Mycellium Tectonics</td>
<td>Adam Marcus, Molly Reichert, John Kim + Daniel Dean</td>
</tr>
<tr>
<td>Meander: Spatializing Geography, Cartography, and Environment</td>
<td>Frank Melendez</td>
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<tr>
<td>Clay Bodies, Computation, and Fabrication</td>
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<td>Texture Tectonics</td>
<td>Roger Hubeli + Julie Larsen</td>
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<tr>
<td>Tower of Tiles</td>
<td>Shai Yehayahu + Phil Zawarz</td>
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<tr>
<td>The Ecology of Play</td>
<td>Future Cities Lab</td>
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<td>Lightswarm</td>
<td>Molly Reichert</td>
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<tr>
<td>Digital Ceramic Exploration</td>
<td>Harrison Atelier</td>
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<td>Species Wall</td>
<td>Jonas Coersmeier + Gisela Baumann</td>
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<tr>
<td>Tree Couture</td>
<td>Shane Burger, Craig Rogers + Simon Tothil</td>
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<td>Adelaide Convention Centre</td>
<td>Jonas Coersmeier + Gisela Baumann</td>
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<td>Tree Couture</td>
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### EXHIBITIONS

<table>
<thead>
<tr>
<th>Exhibition</th>
<th>Authors</th>
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<tbody>
<tr>
<td>Tower of Tiles</td>
<td>Theodore Spyropoulos, Ahmed Shokir, Paulina Vardoulaki, Houzhe Xu + Cosku Cinkitch</td>
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<tr>
<td>Hyper Cell</td>
<td>Michael Fox</td>
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<tr>
<td>Shattered Communities</td>
<td>Jonathan Lain + Carla Landa</td>
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<tr>
<td>Protean Atmospheres</td>
<td>Joris Komen</td>
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<tr>
<td>The Humanimal Recordings</td>
<td>Sina Mostafavi + Henriette Bier</td>
</tr>
<tr>
<td>Informed Design to Robotic Production</td>
<td>Nancy Diniz</td>
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</tbody>
</table>
ACADIA ORGANIZATION

ACADIA (Association for Computer Aided Design in Architecture) is an international network of digital design researchers and professionals. We facilitate critical investigations into the role of computation in architecture, planning, and building science, encouraging innovation in design creativity, sustainability, and education.

ACADIA was founded in 1981 by some of the pioneers in the field of design computation including Bill Mitchell, Chuck Eastman, and Chris Yessios. Since then, ACADIA has hosted over 34 conferences across North America and has grown into a strong network of academics and professionals in the design computation field.

Incorporated in the state of Delaware as a not-for-profit corporation, ACADIA is an all-volunteer organization governed by elected officers, an elected Board of Directors, and appointed ex-officio.

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Mode Lab
Lonn Combs Rensselaer Polytechnic Institute
Lonn Combs is an educator and a practicing architect with degrees from Columbia University (MScAAD 2001) and the University of Kentucky (B.Arch 1992). Lonn Combs was awarded the Rome Prize in Architecture in 2012. Lonn Combs co-founded EASTON+COMBS with partner Rona Easton in 2004. EASTON+COMBS is focused on innovative building strategies through the convergence of material practice, digital methodology and applied architectural research. Among other awards, EASTON+COMBS received the Architecture League of New York award for emerging practices in New York City (2010).

Chris Perry Rensselaer Polytechnic Institute
Chris Perry holds a Master of Architecture from Columbia University where he received an Award for Excellence in Design. After two years working as a project designer for Stan Allen (SAA) and ten years as principal of his first design practice servo, he co-founded his current practice pneumastudio in 2011. Formed in 2011, pneumastudio has exhibited its work at the Design Museum in Barcelona and New York University’s Gallatin School of Individualized Study. Perry is a recipient of the Architectural League of New York’s Prize for Young Architects and Designers and The MacDowell Colony Fellowship.

William Williams University of Cincinnati
William Williams received his Master of Architecture from Harvard GSD in 1991 and his undergraduate degree from the University of Houston in 1989. Prior to joining the University of Cincinnati he taught at the University of Virginia, Rice University, University of Houston, UC Berkeley, and UCLA.
His teaching and research focus on affordable housing. In 2004 he co-authored ROW: Trajectories through the Shotgun House. His work has been funded by the National Endowment for the Arts in 1995, 2000, and 2006, and by the Graham Foundation in 2005.

Mara Marcu University of Cincinnati
Mara Marcu received her Master of Architecture from Harvard GSD in 2009 and her undergraduate degree from the University of Houston in 2005. She is also a graduate of the International Master Class with Glenn Murcutt - Australia and Ghost Lab 7 with Brian MacKay-Lyons - Canada.
Her teaching and research focus on providing for a digital and material workflow that connects design, fabrication, and culture-specific topics. Mara was awarded the Best in Show Design Award upon graduation by the University of Houston and is the recipient of the University of Virginia Fellowship in 2011.

Brian Ringley Woods Bagot
Brian Ringley is on the Global Design Technology Team at Woods Bagot where he leads efforts around Rhino, Grasshopper, fabrication, and analysis workflows, curates and develops custom digital toolsets, and provides intensive project assistance for globally significant projects with high degrees of complexity.
He taught at City Tech (CUNY) and currently teaches at Pratt Institute’s GAUD. Prior to Woods Bagot, he worked for KPF in New York and London, Deltekamp Arquitectos in Mexico City, and R&Sie(n) in Paris. He is a regular contributor to Designalyze.com, a design computation education site, and AEC-APPS.com, an award-winning AEC software database community.

Stephen Slaughter University of Cincinnati
After graduating with a Masters of Architecture from The Ohio State University, Slaughter has initiated his career in Thom Mayne’s studio, Morphosis. As a professional, with nearly 20 years in practice, his experience spans a wide range of projects.
In 2004 he co-founded PHAT, which has exhibited at the Studio Museum in Harlem, the National Gallery of Victoria, and ArchLab in Orlando. His teaching synthesizes technical expertise with a research agenda pursuant of innovative and unconventional design solutions to real world problems facing the underserved.

Ming Tang University of Cincinnati
Ming Tang is an Assistant Professor at the University of Cincinnati, a registered architect, and founding partner of Tang & Yang Architects. The firm has won numerous design awards, including first place in d3 Natural System Competition, IAAC self-sufficient housing contest, and Chichen Itza lodge museum design competition.
His research includes parametric design, digital fabrication, building information modeling, virtual reality, human-computer interaction (HCI), and performance-driven design. His book, Parametric Building Design with Autodesk Maya was published by Routledge in 2014.
To conclude ACADIA 2015, we will host a HACKATHON event that will encourage every participant of the conference to open their laptops to code, collaborate, and problem-solve during an exciting one-day event hosted by the DAAP Rapid Prototyping Center and powered by Chaos Group V-Ray, Flux, Proving Ground and VIMtrek.

The event will host a number of computational ecologies “champions” around which we will form teams and explore different workflows. The participants will be invited to join any of the groups or wander around, absorbing the amazing range of critical design approaches of our skilled participants.

The hackathon celebrates a culture of making and sharing. While we will give juried prizes to the best outputs at the end of the day, every participant will gain insight from how designers behind key practices and institutions critically engage industry problems.

The event invites all design disciplines to work together under one roof. The event will be free to all ACADIA 2015 ticket holders and may also be purchased separately for those unable to attend the ACADIA 2015 conference.

Organized by Brian Ringley
Nathan Miller
Champions Erin Morrow
Rhys Lewis
Nigel Rees
Anthony Buckley Thorpe
Owen Derby
Berdine Yuan
Duke Koschitz, PhD
Matt Newberg
Anthony Caruso
Shane Scranton
Lorin Parker

HACKATHON
Hosted by VRay CHAOSGROUP, with FLUX, PROVING GROUND, VIMtrek, and DAAP Rapid Prototyping Center

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Kansas State University
Ahon Huang
University of Southern California
Lee-Huang
University of Florida
James Kerestes
Ball State University
Christoph Klement
Zaha Hadid Architects
Robert Krawczyk
Illinois Institute of Technology
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Engenergische Technische Hochschule Zürich
Jake Lemos
Syracuse University
Sang Lee
Technische Universität Delft
Carla Leitao
Remssem Polytechnic Institute
Mara Marci
University of Cincinnati
Kyle Miller
Syracuse University
Mark Metas
Remssem Polytechnic Institute

Nancy Diniz
Rensselaer Polytechnic Institute
Mark Donohue
Temple University
Lina Mihalina
Autoweb
Carlos Ogden
Autodesk
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