

CHICAGO
INNOVATE
TECH 2022

chicago, illinois
workshop + symposium program
october 20-21, 2022

The logo for Chicago Innovate Tech 2022 is displayed in a 3D, blocky font. The words "CHICAGO", "INNOVATE", and "TECH 2022" are stacked vertically, with "CHICAGO" at the top, "INNOVATE" in the middle, and "TECH 2022" at the bottom. The letters are light gray with a darker gray shadow on the right side, giving them a three-dimensional appearance.

CHICAGO INNOVATE TECH 2022

the organizers of the event would like to thank the event sponsors, speakers, and attendees for making it a great inaugural event. we will be looking forward to next years event as well as many more...

hiram rodriguez
anthony viola
mayur mistry
kyle vansice
david mans
jennifer waggoner

chicago innovate tech 2022 is a 2-day event with a symposium and masterclass workshops from october 20th to the 21st at the chicago architecture center and technexus:teamworking space. it is an event organized and moderated by local design technologists, architects and engineers that focuses on innovation and technology in the architecture - engineering - construction - operations (aeco) industry.

about us

the event organizers are a group of local design technology enthusiasts with the goal to create a multidisciplinary community of innovation within chicago's aeco industry. we believe the discourse supported by the symposium and masterclasses can bring together and connect innovative individuals where an exchange of ideas and innovations will push the boundaries of our local and international communities. our focus will be to create a multidisciplinary bridge between:

**architects
engineers
construction professionals
design technologists
sustainability experts**

WORKSHOPS

we believe education is a foundation that drives innovation and collaboration and the workshops / masterclasses will bring the most talented developers, entrepreneurs and companies together to teach the creation of new workflows, explore advanced design and sustainability analysis, and investigate new delivery processes for the architecture, engineering, construction and operations (aeco).

advanced cloud based sustainability workflows
cfd and urban microclimate analysis
advanced parametric design tools
metaverse + nft(non fungible tokens)

october 20th, 2022

nvidia omniverse design collaboration

nft & metaverse for aec workshop

micro climate analysis utilizing orbital stack

rapid wind loading analysis utilizing orbital stack

pollination apps workshop

rhino.comute, hops, and gh.player workshop

rhino inside revit workshop

web api in grasshopper utilizing swiftlet

SYMPOSIUM

- 0800** registration opens
- 0830** symposium begins
introduction
- 0840** keynote speaker - robert otani
- 0905** material innovation panel
kyle vansice - moderator
nishant garg
ryan cialdella
philippe block
- 1040** sponsor talk - nvidia
- 1050** design technology and startup incubator panel
charles portelli - moderator
konrad sobon
serena li
mostapha sadeghipour roudsari
nik patel
jan bergstrom

- 1245** **lunch break**
- 1345** **innovation in practice panel**
charles portelli - moderator
george matos
michael hoehn
christopher connock
heath may
- 1525** **sponsor talk - orbital stack**
- 1535** **web3, nft, crypto & future technologies panel**
mayur mistry - moderator
robert salvador
andrew poterala
matt schapiro
katreena tecson
daniela ghertovici
- 1730** **closing remarks**
- 1735** **symposium closes**
- 1800** **reception - perkins&will**

SYMPOSIUM



keynote speaker

Robert K. Otani, PE is Chief Technology Officer at Thornton-Tomasetti, Inc., a 1500+ person multidisciplinary engineering and consulting firm, and founded the CORE, an applications development, advanced computational modeling, and R&D group at his firm. He has extensive structural design experience involving commercial, infrastructure, institutional, cultural and residential structures on projects totaling over \$3 billion USD of construction and has led numerous software applications including Konstru, Design Explorer, Beacon, and the first ML-powered structural engineering application Asterisk.



moderator

Kyle Vansice is the co-founder of Cedar - a web-based platform for the early-stage design of residential projects in the city and an operating system for urban infill construction. Previously a design architect and researcher at SOM and Foster + Partners, he holds graduate degrees in both Architecture and Structural Engineering, and has completed numerous mixed-use and residential projects ranging from the scale of a pavilion to the design and planning of cities.



Nishant Garg is an Assistant Professor in the Department of Civil and Environmental Engineering at University of Illinois at Urbana-Champaign working on the chemistry and characterization of construction material. With his multi-disciplinary background in chemistry, materials science, and civil engineering he has spent his research career in developing a fundamental understanding of sustainable, durable, and environment-friendly cement-based materials.



Ryan Cialdella, LEED AP is the Vice President of Innovation and Market Development at Ozinga. In his role, Ryan oversees the Customer Development Team which includes Research & Development, the marketing department, and inside sales for all core business units. He works with his teams to develop new products to lower the embodied carbon impact of building materials for the construction industry.



Philippe Block is a Full Professor at ETH Zurich, where he is the head of the Institute of Technology in Architecture, and co-director of the Block Research Group (BRG) with Dr. Tom Van Mele. Philippe is also the Director of the Swiss National Centre of Competence in Research (NCCR) in Digital Fabrication, and Founding Partner of Foreign Engineering GmbH. PB studied architecture and structural engineering at the VUB, Belgium, and at MIT, USA, where he earned his PhD in 2009.



moderator

Charles Portelli is a Vice President Application Developer at Thornton Tomasetti's CORE Studio where he focuses on the intersection of application development and the built environment for the AEC industry. Charles heads up operations for TTWiiN's startup Konstru, a 3D BIM common data environment.



Konrad Sobon is the founder for Archi-lab, Co-founder of Bad Monkeys and Bimbeats. Writer of code. Formerly an HOK's Design/BIM Technology Specialist and Grimshaw Architects' Design/BIM Technology Specialist. Open Source is what I believe in so you can find most of my work on my GitHub page or on my blog.



Serena Li joined Hypar in 2020 as a software engineer. Her architecture and urban planning background has inspired her to work on advancing design outcomes in the built environment via transparency, technology, and interdisciplinary collaboration. She has previously held design technology roles on Thornton Tomasetti's CORE studio, Kohn Pedersen Fox's Urban Interface team, and WeWork's Design Automation team.



Mostapha Sadeghipour Roudsari is a co-founder of Ladybug Tools LLC. He started the development of several open source projects including Ladybug Tools, EPWmap, and DesignExplorer. After receiving his Master's in Environmental Building Design (MEBD) from the University of Pennsylvania, he worked as a Senior Designer for Adrian Smith + Gordon Gill and as an Integration Applications Developer for Thornton Tomasetti CORE-Studio, and lecturer at the University of Pennsylvania before co-founding Ladybug Tools LLC.



Nik Patel Nik is the Co-Founder and Chief Technology Officer of Cohesion, a smart building SaaS platform in the commercial real estate space. He is responsible for leading the strategy and execution of the software development, architecture, security efforts and product implementation to achieve the company's vision and goals.



Jan Bergstrom is the General Manager of Orbital Stack. He has been with Orbital Stack / RWDI for the last 2.5 years building its microclimate and wind analysis software business. Jan comes from a background in technology development and product management, having worked for both start-ups and larger technology firms in areas including smart electrical distribution networks, intelligent traffic management, high-performance computing, and artificial intelligence systems.



George Matos is senior product manager of architecture, engineering, and construction and AECO industry lead for the Omniverse platform. George helps a variety of customers, vendors, and partners evaluate how technology can help improve their workflows. With over 20 years of experience in AEC and a passion for visualization, George is familiar with the common challenges the industry faces and is always looking for new ways technology can help enhance the industry.



Michael Hoehn develops firm-wide computational strategies that integrate collaborative coding, machine learning, and data gathering from real-time building environment simulations. His passion for the built environment comes from his training as an architect where he sought continually to question traditional practice methodologies and advance design capabilities through the integration of cutting-edge technology and collaborative practices.



Christopher Connock is Principal and Design Computation Director at KieranTimberlake, Christopher explores topics such as generative and parametric design, application development, data visualization, immersive environments, and digital fabrication. Christopher has developed an array of software tools including Pointelist, a wireless sensor network, Tally®, a Life Cycle Assessment plugin for Revit, and Roast™, a customizable comfort survey app.



Heath May, AIA is Principal and Director of HKS LINE (Laboratory for INTensive Exploration.) His work and research with LINE include data-driven design optimization, simulation, and digital design, fabrication and delivery. Contributing to books and publications on topics ranging from interdisciplinary collaboration, computational methodologies, and digital practice, Heath is also an author of a patented method for digital stamping and sealing of architectural documents.



moderator

Mayur Mistry is a Structural Engineer turned Architect turned Web3 Developer. He works at Perkins & Will, Digital I/O Lab as Digital Innovation Technologist. He has tutored AI and Metaverse workshops in various conferences and runs a Youtube channel called Engineering ArchiTECHure and is Core Group Member of ArchiDAO developing experiences that integrate blockchain and Metaverse.



Robert Salvador is CEO of DigiBuild Software



Andrew Poterala is a summoner of ChainVision. Based out of Chicago, ChainVision is a collective that aims to be a full-service citizen of the space catalyzing our brightest vision of the decentralized future. We are very focused on growing the digital asset community in Chicago through various social/educational events with a goal to make Chicago and the Midwest one of the most dense hubs for crypto innovation in the world.



Matt Shapiro is founder of imnotart



Katreena Tecson is passionate about building meaningful projects in web3. Prior to web3 she was in architecture designing high rises and custom homes. Her web3 journey started in 2016 when someone taught her how to trade crypto.



Daniela Ghertovici is an Architectural Professional, Entrepreneur, Researcher, Educator, and Scholar, with over 25 years of international experience as an architectural designer and technologist on complex mixed-use urban developments. She is the Founder of ArchAgenda, a program partner of the Chicago Architecture Biennial since its inauguration in 2015. Daniela is Co-Founder of Liberland Metaverse together with the President of Liberland Vit Jedlicka, Principal of Zaha Hadid Architects Patrik Schumacher, and head of ZHACODE Shajay Bhooshan.

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