



SUSTAINABLE
SMART CITIES
SYMPOSIUM

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

October 1, 2015

**University of Alabama at Birmingham Alumni House
1301 10th Avenue South, Birmingham, AL 35205**

Revitalizing Cities. Sustainable Smart Solutions.



**Economic vitality and competitiveness
Global smart cities hack-a-thons
Green architecture and construction
Information communication technologies
Smart transportation solutions
Urban planning and regeneration**

Information and Online Registration: 205.996.2880 | www.uab.edu/smartcities



Sustainability
College of Arts and Sciences
Minority Health & Health Disparities Research Center
School of Business
School of Engineering
School of Medicine

Event hosted by:



October 1, 2015

University of Alabama at Birmingham Alumni House | 1301 10th Avenue South | Birmingham, Alabama 35205

TIME	TOPIC
8:00 am	REGISTRATION
8:30 am	OPENING REMARKS Fouad H. Fouad, PhD Director, UAB Sustainable Smart Cities Research Center J. Iwan Alexander, PhD Dean, UAB School of Engineering
9:00 am	SMART, SUSTAINABLE BIRMINGHAM The Honorable William Bell Mayor, City of Birmingham
9:30 am	ECONOMIC VITALITY: LEVERAGING THE POWER OF TECHNOLOGY Riz Khaliq Director, IBM Global Public Sector and Smarter Cities
10:15 am	BREAK
10:30 am	HOW ARE SMART CITIES HACKATHONS HELPING COMMUNITIES AROUND THE WORLD? Teresa Bouza Founder and Director, DATAFEST
11:15 am	KEYNOTE ADDRESS URBAN GREEN/URBAN HEART: PUBLIC LANDSCAPES AT THE INTERSECTION OF ECOLOGY, CULTURE AND ART Thomas Woltz Principal and Owner, Nelson Byrd Wotz Landscape Architects (NBW)

The UAB Sustainable Smart Cities Symposium is an annual forum designed to keep the Birmingham community stakeholders, scientists at UAB and other academic institutions across the South, at the forefront of urban sustainability and development of technologies and solutions to make cities smarter. The symposium works hand in hand with other programs at UAB and partner institutions and organizations to encourage investigators to *Advance the Science of Cities*.

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TIME	TOPIC										
12:00 am	LUNCH										
12:30 pm	<p>REVITALIZING CITIES. SMART SOLUTIONS. PANEL DISCUSSION</p> <p>Moderator: Molly Wasko, PhD Professor and Director, Management, Information Systems and Quantitative Methods UAB Collat School of Business</p> <p>Panelists:</p> <table> <tr> <td>Ann August</td> <td>Director, MAX/Birmingham-Jefferson County Transportation Authority</td> </tr> <tr> <td>Teresa Bouza</td> <td>Founder and Director, DATAFEST</td> </tr> <tr> <td>Christopher D. Hatcher</td> <td>Urban Design Administrator, City of Birmingham</td> </tr> <tr> <td>Riz Khaliq</td> <td>Director, IBM Global Public Sector and Smarter Cities</td> </tr> <tr> <td>Thomas Woltz</td> <td>Principal and Owner, Nelson Byrd Wotz Landscape Architects (NBW)</td> </tr> </table>	Ann August	Director, MAX/Birmingham-Jefferson County Transportation Authority	Teresa Bouza	Founder and Director, DATAFEST	Christopher D. Hatcher	Urban Design Administrator, City of Birmingham	Riz Khaliq	Director, IBM Global Public Sector and Smarter Cities	Thomas Woltz	Principal and Owner, Nelson Byrd Wotz Landscape Architects (NBW)
Ann August	Director, MAX/Birmingham-Jefferson County Transportation Authority										
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Christopher D. Hatcher	Urban Design Administrator, City of Birmingham										
Riz Khaliq	Director, IBM Global Public Sector and Smarter Cities										
Thomas Woltz	Principal and Owner, Nelson Byrd Wotz Landscape Architects (NBW)										
1:30 pm	<p>CLOSING REMARKS Fouad H. Fouad, PhD Director, UAB Sustainable Smart Cities Research Center</p>										
2:00 pm	MEETING ADJOURN										

Scientific Planning Committee

Ann August (BJCTA/MAX) Lowell Christy (Cobb/Christy) Fouad Fouad, PhD (UAB)
Craig Fleming (DUNN Construction) Tony Smoke, Robin White (Alabama Power)

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J. Iwan Alexander, PhD

Dean, School of Engineering
University of Alabama at Birmingham

Dr. Alexander was appointed as Dean of the School of Engineering at the University of Alabama at Birmingham (UAB) in August 2013. His research includes theoretical studies, computational simulations and experiments, particularly those processes associated with materials preparation and fluid surface dynamics. He was involved with five NASA experiments related to space shuttle and the international space station. Dr. Alexander is internationally recognized for his work on microgravity fluid processes.

Before coming to UAB he was Chair of the Department of Mechanical and Aerospace Engineering at Case Western Reserve University (CWRU) and Director of CWRU's Great Lakes Energy Institute. In 2008, he was awarded NASA's Exceptional Service Medal. Dr. Alexander earned his doctoral degree at Washington State University and received his bachelor's degree at University College Swansea, Wales, UK.



The Honorable Mayor William A. Bell, JD

Mayor, City of Birmingham

William Bell was sworn in as Birmingham City Mayor on January 26, 2010 and re-elected on August 2013. He was also the first African-American President of the Birmingham City Council, elected in 1985. He was again chosen as Birmingham City Council President in 1987 and 1997. As one of the longest serving public officials in the City of Birmingham, Mayor Bell is responsible for the first Hope VI Project in downtown Birmingham that transformed a local inner city housing development into an affordable, mixed housing community. Mayor Bell has extensive professional experience in community and economic development in both the public and private sectors. During his tenure, Mayor Bell has helped transform the City of Birmingham into a more sustainable, efficient, and prosperous one.



Teresa Bouza

Founder, DATAFEST
Director, Global Urban Datafest - Smart Cities Hack-a-thon

Teresa Bouza is the Silicon Valley-based Innovation and Technology correspondent with EFE, Spain's international news agency. She is the founder of Datafest, a hackathon that brings together technologists, journalists, data scientists and subject matter experts. The past Datafest events include a campaign finance hackathon at Stanford University in 2012, a bi-coastal event at Columbia and Stanford universities on money and politics in 2013, an international hackathon on migration in the Americas in 2013-2014 and a global hackathon on smart cities this year. She also worked with the International Women's Media Foundation (IWMF) on developing the Cracking the Code Hackathon that culminated the Women Digital News Entrepreneur Summit in NY in January this year. Bouza was an editor with The Wall Street Journal Americas in NY from 1999 to 2003. She has a master's degree from Columbia University and was a Knight Fellow at Stanford.

Ann Dawson-August

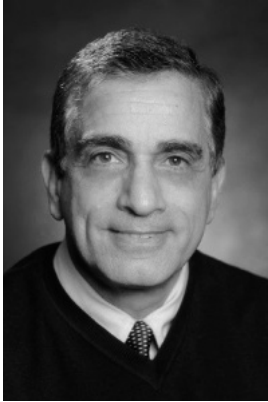
Executive Director, Birmingham-Jefferson County Transit Authority



Ann Dawson-August grew up in Philadelphia, Pennsylvania. She earned a degree in finance at LaSalle University. She held various leadership positions in the Southeastern Pennsylvania Transportation Authority (SEPTA) and the Santee Wateree Regional Transportation Authority (SWARTA) in South Carolina where she was appointed as director and CEO in 2002. Ann served on the Transportation Research Analysis Committee for the Transportation Research Board in Washington D.C. and as the Southeast Regional Director of the Community Transportation Association of America. She began her tenure with the BJCTA in January 2013. She coordinated the acquisition of 30 new compressed natural gas-fueled buses and as part of the Birmingham transportation system improvement.

Fouad H. Fouad, PhD

**Chair and Professor, Department of Civil, Construction and Environmental Engineering
Director, Sustainable Smart Cities Research Center
University of Alabama at Birmingham**



Dr. Fouad Fouad teaches and conducts research in the area of reinforced concrete structures and concrete materials. His research efforts have led to the development of national standards and specifications for a number of sustainable green concrete products and building systems. Dr. Fouad currently chairs the PCI committee on Prestressed Concrete Poles and the ASTM committee on Autoclaved Aerated Concrete. Dr. Fouad's research expertise in green materials and construction methods has a global perspective. He recently held three National Science Foundation (NSF) workshops in Cairo, Egypt on Sustainable Green Building design and Construction. Dr. Fouad has been working in the area of highway sign and traffic signal supports for the past 20 years. As principal investigator on several NCHRP and DOT projects, he led a team of experts from U.S. universities whose efforts culminated in the development of the current, newly and totally revised, *AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals*.

Christopher D. Hatcher, AICP

Urban Design Administrator, City of Birmingham



In this role Chris Hatcher is responsible for work that involves preparing and reviewing public and private development projects including planning and architectural studies, design economic feasibility, and program implementation that supports the City's revitalization strategies through a variety of urban design, historic preservation, architectural, landscape architectural, and planning activities.

Chris served as a urban planner with the cities of Denton and Ft. Worth Texas before returning home to his native Birmingham to accept a position as Vice President of Planning for Operation New Birmingham, REV Birmingham's predecessor organization, a post he held for eight years prior to the merger.

Chris holds a Bachelors of Arts degree from Auburn University, a Master of Urban and Regional Planning from Alabama A & M University and the American Institute of Certified Planners (AICP) professional planner designation.



Riz Khaliq

Director, IBM Global Public Sector and Smarter Cities

Rizwan (Riz) Khaliq is Director of Marketing and Communications for IBM Global Public Sector and Smarter Cities, where he has responsibilities for all marketing, go to market and communications for Public Sector industries which includes, Government, Healthcare, Life Sciences and Education. Riz has been with IBM for more than 13 years, prior to his current role Riz was the Director of Marketing and Communications for IBM Global Communications Sector, Business Area Leader for IBM Intelligent Transportation Systems, Business Unit Executive for IBM's Digital Communities Business., Global Wireless Solutions and Marketing Executive for Public Sector and also held a position of Business Development Executive in Stockholm, Sweden for IBM's Wireless/ Pervasive business in the EMEA (Europe, Middle East, and Africa) region. Before joining IBM, Riz was with the US Foreign Service and served as Commercial Attaché at the US embassies in Denmark and South Africa.



Molly Wasko, PhD

**Professor and Chair, Department of Management, Information Systems and Quantitative Methods - UAB Collat School of Business
University of Alabama at Birmingham**

Molly Wasko teaches primarily strategic information technologies, corporate information security and project management. She received her doctorate in MIS from the University of Maryland, College Park, and she holds an M.B.A. from Averett University. Prior to getting her doctorate, she spent eight years working in production and operations management. Her research interests include the intersection of digital and social networks, social network analysis, the development of online communities, and open source software projects. Her research has been published in MISQ, JAIS, Decision Sciences, Journal of International Management, JCMC, Journal of Strategic IS and JITTA, and has been presented at ICIS, ECIS, AOM, Sunbelt and AMCIS. She is a member of the Academy of Management, AIS and INFORMS.



Keynote Address

URBAN GREEN/URBAN HEART:
PUBLIC LANDSCAPES
AT THE INTERSECTION OF
ECOLOGY, CULTURE AND ART

Thomas Woltz

Principal and Owner, Nelson Byrd Woltz Landscape Architects (NBW)

Thomas Woltz is the principal and owner of Nelson Byrd Woltz Landscape Architects (NBW) with offices in New York City, and Charlottesville VA. In 2011, he was invested into the American Society of Landscape Architects Council of Fellows, among the highest honors achieved in the profession, and in 2013 he was named Design Innovator of the Year by the Wall Street Journal.

During the past 19 years of practice, Woltz and his firm have achieved a body of work that integrates the beauty and function of built form and craftsmanship with an understanding of complex biological systems, and has yielded hundreds of acres of reconstructed wetlands, reforested land, native meadows, and flourishing wildlife habitat. NBW's designs reveal narratives of the land in places where people live, work, and play creating a sense of connection and inspiring stewardship. Current NBW projects include Houston's Memorial Park, Centennial Park in Nashville, and the Hudson Yards East landscape in Manhattan.

Thomas Woltz is the architect who designed and leads the redevelopment of the Alabama Power Powell Avenue Steam Plant in Birmingham.





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Advancing the Science of Cities

The Sustainable Smart Cities Research Center at the University of Alabama at Birmingham (UAB SSC) is an enabling platform for interdisciplinary collaboration to understand and transform the impact of urbanization at the scientific, economic, and human levels.

UAB's contribution to sustainability derives from the university's unique capabilities to generate new knowledge and cutting-edge science.

Through the Sustainable Smart Cities Research Center, UAB acts as an engine of innovation that can transform the community by developing smart technologies and information systems, better transportation models, green construction, renewable energy, and sustainable environment, which results in increased economic development, healthier workforce, and better quality of life for all. Such innovation-based growth will lead to societal transformation, and UAB is proud to be at the forefront of this process, leading the way to the future.

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Sustainable Smart Cities Research Center

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