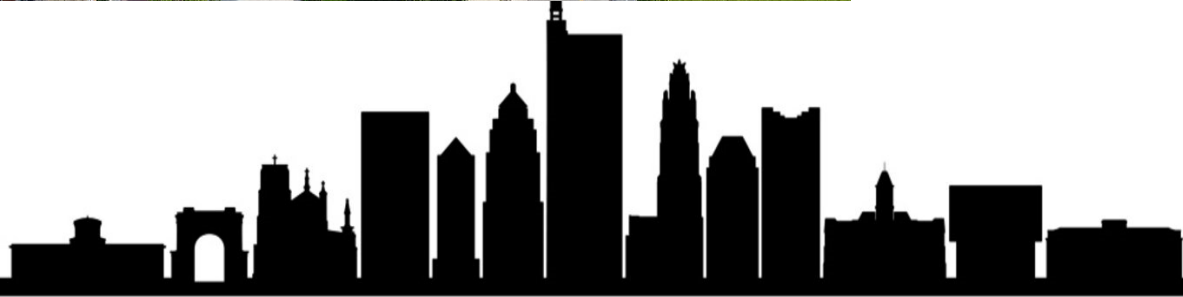


2023 Industry Studies Association Annual Conference May 31—June 2, 2023



COLUMBUS, OHIO



INDUSTRY STUDIES ASSOCIATION

~WELCOME~

Tonya Boone, President of the Industry Studies Association

On behalf of the Industry Studies Association (ISA) board and the conference planning team, we welcome you to Columbus and our 2023 Annual Conference.

ISA offers a unique opportunity for scholars and practitioners in academia, industry, and government to collaborate, exchange ideas and identify important new research opportunities.

This year's conference theme **Reconceptualizing Competition: Nation, Region, Firm, and Individual**, allows us to reflect on the role of competition, broadly writ, in changing industry, national and global structures.

We begin with our professional development workshop for students and new graduates. During the main conference, you will hear from researchers rooted in disparate disciplines describing competitive dynamics in various industries, value networks, and supply chains.

In addition to parallel sessions of papers and panels across seven tracks, we are hosting several special sessions covering a range of managerial, economic, and policy issues rooted in various geographic locations, e.g., the evolution of the German Electric Vehicle Industry, Economic Development in Ohio, and current US Industrial Policy.

Three plenaries will highlight new avenues of research and emerging research questions. The first overviews the NSF-funded Critical Technology Assessment Pilot headed by Professor Erica Fuchs. In the second, current and former administration officials describe the evolution of US Industrial Strategy. Finally, researchers discuss the intersection of industrial policy and resilient supply chains.

The conference committee has arranged tours with a local Honda plant and a Hikma pharmaceutical facility. We hope that you will take advantage of these opportunities.

As always, you can expect stimulating research and conversations. Be prepared for provocative conversations with scholars, practitioners, and policymakers on relevant and timely issues. You can expect to strengthen existing ties and make new connections.

Welcome to Columbus.

Tonya Boone
President, ISA



Conference in Brief

LOCATION

The Fisher College of Business
The Ohio State University
Columbus, OH 43210

The Blackwell Inn & Pfahl Conference Center
2110 Tuttle Park Place
Columbus, OH 43210

REGISTRATION

Wednesday, May 31	12:00 pm — 4:00 pm	The Blackwell Foyer
Thursday, June 1	7:30 am — 4:00 pm	The Blackwell Foyer
Friday, June 2	7:30 am — 9:00 am	The Blackwell Foyer

WEDNESDAY, May 31, 2023

8:30 am—1:00 pm	Professional Development Luncheon & Workshop
9:15 am —12:00 pm	Excursion 1: Honda
9:15 am —12:00 pm	Excursion 2: Hikma Pharmaceuticals USA, Inc.
1:00 pm	ISA Annual Conference Begins
1:00 pm —2:15 pm	ISA Special Sessions Two Options, Your Choice
2:30 pm — 3:30 pm	ISA Research Sessions Concurrent Panel Sessions
3:45 pm—5:00 pm	ISA Special Sessions Two Options, Your Choice
5:30 pm—7:30 pm	ISA Welcome Reception

THURSDAY June 1, 2023

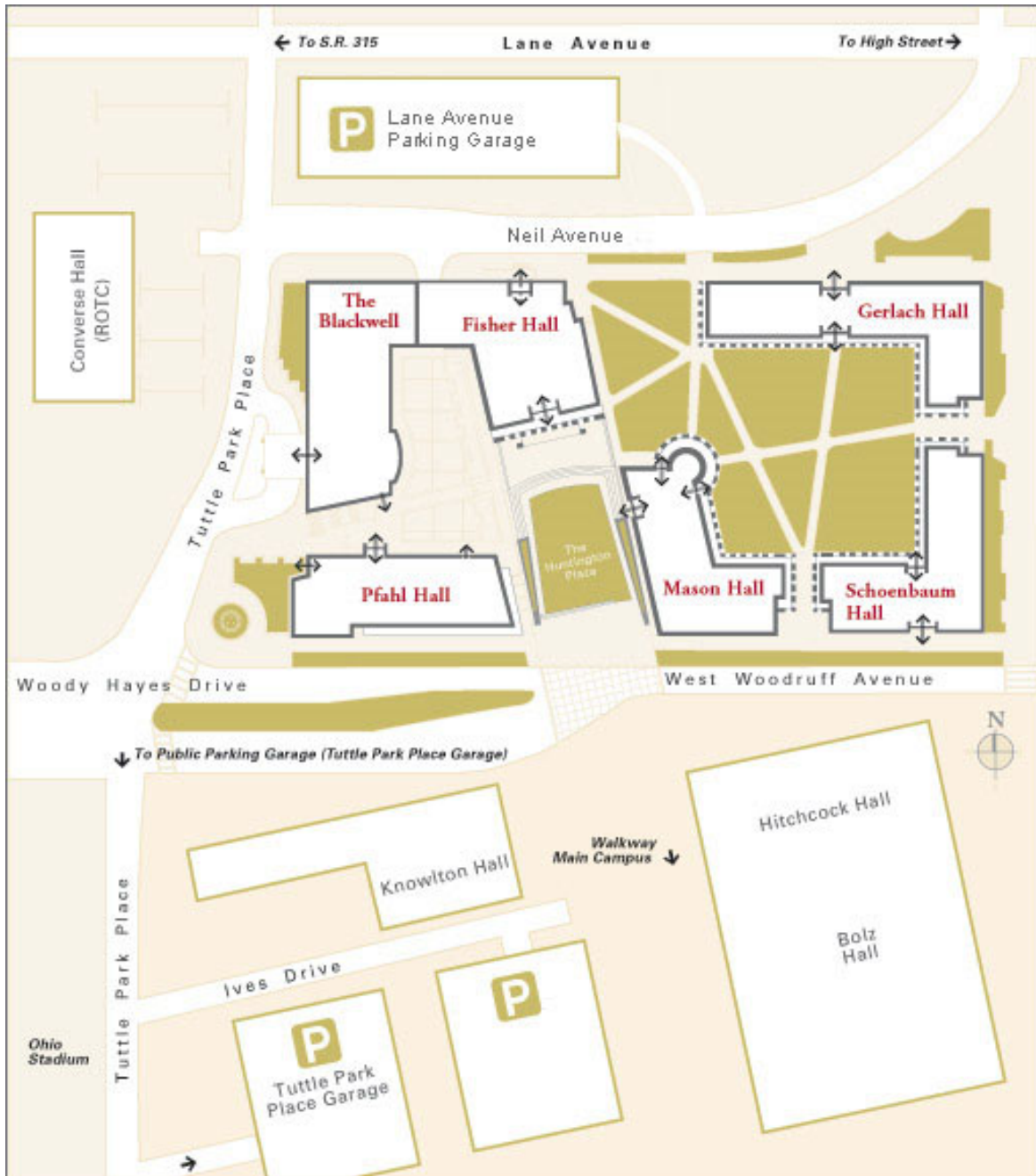
8:00 am — 9:15 am	Opening Plenary: The National Need & Vision for Critical Technology Assessment: Demonstrations of a Pilot National Network
9:30 am — 10:30 am	ISA Research Sessions Concurrent Panel Sessions
10:45 am—11:45 am	ISA Research Sessions Concurrent Panel Sessions
12:00 pm — 1:00 pm	Lunch & ISA Business Meeting
1:15 pm — 2:15 pm	ISA Special Sessions Two Options, Your Choice
2:30 pm — 3:30 pm	ISA Research Sessions Concurrent Panel Sessions
3:45 pm — 5:00 pm	ISA Plenary: U.S. Industrial Strategy: Where It Came From, Where It's Going, and Emerging Research Opportunities
5:30 pm — 7:00 pm	Industry Studies Association Conference Reception

FRIDAY June 2, 2023

8:00 am — 9:15 am	ISA Plenary: Supply Chain Resilience: New Perspectives & Policies
9:30 am — 10:30 am	ISA Research Sessions Concurrent Panel Sessions
10:45 am — 11:45 pm	ISA Research Sessions Concurrent Panel Sessions
12:00 pm — 1:00 pm	Lunch and ISA Awards Ceremony
1:00 pm	Adjourn
2:00 pm—5:00 pm	Optional No Host Columbus Breweries led by John Gray, ISA VP



Conference Map



Industry Studies Association Awards

Join us Friday June 2nd at the Awards Ceremony as we recognize all awardees

Conference Best Paper in the Innovation and Entrepreneurship Research Stream Award

WINNING PAPER

"Environmental Transparency and Value Appropriation from Innovation: Evidence from US Hydraulic Fracturing 2000–2020", by Shirley Tang

RUNNER-UP

"How Does Transparency Impact Technological Novelty? Evidence from Large Pharmaceutical Firms", by Hanu Tyagi

Dissertation Award

WINNER

Jungkyu Suh, Duke University , "Science, Startups, and Innovation in the Laser Industry"

RUNNER-UP

Ying Li, University of Illinois Urbana-Champaign, "Technology, Local Communities, and Market Evolution: The Rise, Fall, and Perseverance of the American Movie Theater Industry, 1896-2020"

Emerging Scholar in Innovation and Entrepreneurship Award

This award recognizes an early or mid-career industry studies scholar conducting exceptional research in the area of innovation and entrepreneurship. The award winner demonstrates significant personal investment in understanding the markets, firms, and institutions of an industry and frequently involves the integration of director observation through field based research with appropriate theory and analysis.

WINNER

Florence Honoré (Wisconsin School of Business)

"Her work focuses on who becomes an entrepreneur and how prior work experiences affect start-up outcomes"



Industry Studies Association Awards

Join us Friday, June 2nd at the Awards Ceremony as we recognize all awardees

Giarratani Rising Star Award

This award recognizes junior scholars who have made a significant contribution to the paper they submit for the Giarratani Rising Star award and must not have been accepted for publication at the time of submission and the junior scholar must not be more than six years post Ph.D.

WINNER

"The Emergence of Organizational Culture in Technology-Based Startups", by Christopher Law

RUNNER-UP

"Improving Smallholder Farm Productivity and Addressing Poverty Through Disseminating Operational Practices: Are "Good" Agricultural Practices Good Enough?", by Cranbeck Ucel

Ralph Gomory Best Industry Studies Paper Award

WINNING PAPER (Tie)

"Emancipatory Technology and Developing-World Supply Chains: A Case Study of African Women Gemstone Miners.", by George, Jordana, Whitten, Dwayne, Metters, Richard, & Abbey, James. (2022), *Journal of Operations Management*, 68(6-7), 619-648.

"The Perils of Laundering Control through Customers: A Study of Control and Resistance in the Ride-hail Industry.", by Michael D. Maffie (2022), *ILR Review*, 75(2), 348-372.

RUNNER-UP

"Pre-Entry Experience, Post-Entry Adaptations, and Internationalization in the African Mobile Telecommunications Industry.", by Jahanbakht, Mohammad, Mostafa, Romel, & Veloso, Francisco (2022), *Organization Science*, 33(3), 969-990.

Thank you to all who served on an award selection committee!



Conference Program in Detail

Throughout the conference schedule, panels indicate which one of the seven ISA research streams they represent by the following abbreviations and color scheme:

1. Energy, Power, & Sustainability (EP&S)

This stream invites papers and panels on the changing market and public policy landscape where the energy industry (including oil and gas, electricity, pipelines) intersects with environmental concerns.

2. Health Care Delivery, Biotechnology, and Pharmaceuticals (H)

This stream invites papers and panels that examine the myriad of issues surrounding effective management of health care entities and systems (e.g., hospitals, medical groups, public health agencies, insurance companies, pharmaceutical firms, technology companies, etc.).

3. Innovation & Entrepreneurship (I&E)

This stream invites papers and panels that examine innovation within firms and other organizations such as universities, across organizational boundaries, across country boundaries, and in new entrepreneurial ventures.

4. Public Policy and Competitiveness: National, Regional, and Global (PPC)

Public policy – whether national, regional, local or global – often shapes opportunities for industries, including competitive options within industries and globalization of industries. In turn, wrestling with these opportunities, competitiveness and globalization have had a profound impact on the nature of industrial activity and policy.

5. Labor Markets, Organizations, & Employment Relations (LMO&ER)

This stream welcomes papers and panels that examine the impacts of firm, industry, and market characteristics on labor markets, industrial relations, and/or human resource practices as well as public policy outcomes.

6. Operations, Supply Chain, and Technology Management (OSTM)

This stream welcomes papers and panels that are concerned with the oversight, design, and control of the business processes responsible for the production of goods and services as well as those focused on coordination of (multiple) firms responsible for these business processes within a supply network.

7. General and Other Industry Studies (GIS)

Any research on issues or industries not covered in the research streams described above may be submitted to this general stream. Papers or organized panels comparing phenomena, trends, issues, or



Conference Program: Wednesday, May 31

INDUSTRY STUDIES ANNUAL PRE-CONFERENCE

EXCURSIONS: (pre registration required)

9:15 am – 12:00 pm **Honda**
9:15 am – 12:00 pm **Hikma Pharmaceuticals USA, Inc.**

PROFESSIONAL DEVELOPMENT WORKSHOP (pre registration required)

8:30 am – 1:00 pm *Workshop (includes lunch)* **Mason Hall 205**

INDUSTRY STUDIES ANNUAL CONFERENCE

ISA SPECIAL SESSIONS

1:00 pm – 2:15 pm **Automotive Transformation: A German Perspective on the Electrical and Digital Transformation of the Automotive Industry**

1:00 pm – 2:15 pm **Pharmacy Benefit Manager (PBM) Reform: The Problems, Public and Private Actions, and Status**

ISA RESEARCH SESSIONS

2:30 pm – 3:30 pm **See Program Details**

ISA SPECIAL SESSIONS

3:45 pm – 5:00 pm **Innovative State Economic Development: JobOhio's Origin, Structure, Successes, and Learnings**

3:45 pm – 5:00 pm **Fireside Chat on Industrial Policy and the Role of the State**

INDUSTRY STUDIES CONFERENCE WELCOME RECEPTION

5:30 pm – 7:30 pm **Ohio Stadium**
Home of The Ohio State Buckeyes Football Team
Tour Included



Wednesday, May 31

1:00—2:15 pm

Panelists' Bios

Special Session | Automotive Transformation: A German Perspective on the Electrical and Digital Transformation of the Automotive Industry

With 786,000 directly employed persons and a volume of 450 billion USD in 2021, the automotive industry is the largest and most important industry in Germany. In this decade, the automotive industry is faced by multiple disruptive changes such as the electrification of the powertrain, new forms of mobility, and shortage in skilled workforce. This session combines the expertise of a group of directors and professors from Germany's leading applied research institutions for manufacturing engineering with a manager of a global automotive OEM. Each presenter will give a 10-minute presentation followed by an extended panel discussion. As part of the expert commission on automotive transformation for the German government, Prof. Bauernhansl will present Fraunhofer IPA's vision for a new paradigm for the automotive production system of the future. Prof. Palm and Prof. Aschenbrenner will add to the discussion with their expertise on Industrie 4.0 technologies to be used in automotive production and supply chains.



Thomas Bauernhansl, Dr.-Ing, Director of the Institute of Industrial Manufacturing and Management IFF, University of Stuttgart. He has held his current position as Director of the Fraunhofer Institute for Manufacturing Engineering and Automation IPA in Stuttgart, Germany since September 2011. He also serves as Director of the Institute of Industrial Manufacturing and Management (IFF) at the University of Stuttgart. His scientific focus is on digital and biological transformation, production organization, factory planning, automation and robotics.



Daniel Palm, Dr. Techn, Dipl.-Ing, Professor of Logistics and Supply Chain Management at ESB Business School, Reutlingen University. He studied mechanical engineering at the Technical University of Stuttgart, specializing in technology management and industrial manufacturing and management; graduated as certified Mechanical Engineer (Dipl.-Ing.). Daniel Palm got his doctors degree in mechanical engineering from the Vienna University of Technology. He worked in more than 50 research and consultancy projects in the fields of Logistics Planning and Supply Structures, Supply Chain Management, Business Process Reengineering, Factory Planning, Organization and Production management.



Doris Aschenbrenner, Doris Aschenbrenner is a professor at Aalen University. Her main research interest is to create sustainable employment within the fourth industrial revolution. She received her PhD on "Human-Robot Interaction Concepts for Human Supervisory Control and Telemaintenance Applications in an Industry 4.0 Environment". After that, she founded, together with others, a tech startup, "Awesome Technologies", and started her postdoc and tenure track at TU Delft Faculty of Industrial Design Engineering in the field of "human-robot-coproduction".



Moderator: John Paul MacDuffie, PhD, Professor of Management, Wharton School, University of Pennsylvania and Director of the Program on Vehicle and Mobility Innovation (PVMI) at Wharton's Mack Institute for Innovation Management. PVMI carries on the work of the International Motor Vehicle Program (IMVP), the research network founded at M.I.T. to study the challenges facing the global automotive industry, which Professor MacDuffie co-directed from 2001-2012. He received his B.A. degree from Harvard University and his Ph.D. degree from the Sloan School of Management at M.I.T.



Moderator: Simon Schumacher, Fraunhofer Institute for Manufacturing Engineering and Automation IPA. A research scientist and head of the research group Digital Industrial Engineering at the Competence Center Digital Tools in Manufacturing at the Fraunhofer Institute for Manufacturing Engineering and Automation IPA in Stuttgart, Germany.



Wednesday, May 31

1:00—2:15 pm

Panelists' Bios

Special Session | Pharmacy Benefit Manager (PBM) Reform: The Problems, Public and Private Actions, and Status

Across the country, governments, employers, and patients struggle to afford life-saving medications. As Americans struggle to find the right balance between the accessibility and affordability of prescription drugs, an increasingly complex and dysfunctional system makes attaining needed efficiencies elusive. Over the last two decades, payers have increasingly leveraged the scale and sophistication of pharmacy benefit managers (PBMs) to act as a counterweight to minimize their exposure to inflated prescription drug prices. However, in more recent years, Ohio and many other states across the country have discovered that like other members of the drug channel, PBMs too can use opaque tactics to drive up the costs of medicine. This session will highlight the intricacies of the prescription drug supply chain and its multi-faceted pricing issues. It will highlight the function of the PBM and how vertical integration, a lack of transparency, and conflicting incentives can compromise their stated mission to lower the costs of medicines for consumers.



Antonio Ciaccia, President of 3 Axis Advisors / CEO of 46brooklyn Research. Born and raised in pharmacy, Antonio has been crawling around pharmacies his entire life. After three years as a pharmacy technician and two years of pre-pharmacy curriculum, Antonio diverted course, graduating from The Ohio State University in 2007 with dual degrees in communications and political science before moving into the world of association management. Knowing something was being lost somewhere in the middle of an ever-growing transaction, Antonio has spent years working to crack the drug pricing code and pull the rug out from what he believes is one of the most dysfunctional marketplaces in the world.



Robert Popovian, is the Founder of the strategic consulting firm Conquest Advisors. He previously served as Vice President, U.S. Government Relations at Pfizer. One of the country's foremost experts on every significant facet of biopharmaceuticals and the healthcare industry, he is also a recognized authority on health economics, policy, government relations, medical affairs, and strategic planning. He is one of the select few researchers to study and publish both clinical and policy-related economic analysis as well as empirical data regarding emerging payment models in the U.S. healthcare system and for biopharmaceutical reimbursement. His insight and analysis also led to one of the first inclusions of health outcomes data regarding a biopharmaceutical labeled indication.



Darrel Rowland is an investigative/politics reporter for ABC6/Fox28 Columbus. Prior to that role, Darrel was an award-winning journalist for the Columbus Dispatch for 31 years, also serving as Public Affairs Editor and Senior Editor. He and his team investigated many difficult and important issues such as wrongful murder convictions, payday lenders and the opioid crisis. His work uncovering practices of PBMs in Ohio led to the state revamping its entire Medicaid managed care setup into a single, state-supervised PBM, sparked bills banning such tactics as clawbacks, and paved the way for Ohio's attorney general to become the first to successfully sue Centene for its practices, leading to an \$88 million settlement for the state.



Wednesday, May 31

ISA SPECIAL SESSIONS | TWO OPTIONS, YOUR CHOICE

1:00 pm—2:15 pm

Blackwell Ballroom

Automotive Transformation: A German Perspective on the Electrical and Digital Transformation of the Automotive Industry

1:00 pm—2:15 pm

Pfahl 140

Pharmacy Benefit Manager (PBM) Reform: The Problems, Public and Private Actions, and Status

ISA RESEARCH SESSIONS 2:30 pm—3:30 pm

1A: Diversity, Equity, and Labor (LMO&ER)

Pfahl 302

Chair: Amanda Chuan (Michigan State University)

Non-College Occupations, Workplace Routinization, and the Gender Gap in College Enrollment
Amanda Chuan (Michigan State University)
Weilong Zhang (University of Cambridge)

The Role of Social Networking in Career Advancement of Women with Foreign Background
Mukhammadyusuf Shaymardanov (University of Jyväskylä)

Oscar Voters so White? Spillover Effects of an Evaluator's Diversity Intervention
Daphne Baldassari (University of Toronto)

Pay Transparency in Online Job Ads
Yu Zhao (University of Pennsylvania)
Pinar Yildirim (University of Pennsylvania)
Isaac Dinner (Indeed, Inc)
Joseph Zucker (Indeed, Inc)

1B: Mining, Resource Allocation and Wind Resources (EP&S)

Pfahl 202

Chair: Bruno Kamdem (Lepton Acturial LLC and New York University)

Does Income Inequality Harm Green Growth? The BRICS Experience.
Muhammad Tayyab Sohail (Xiangtan University China)

Flexible Resource Allocation Strategies: Resource Redeployment and Resource Idling
Arkadiy Sakhartov (University of Illinois at Urbana-Champaign)
Toby X. Li (Texas A&M University)
Jeffrey J. Reuer (University of Colorado Boulder)

A Reinforcement Learning Mechanism for Trading Wind Power Futures
Bruno Kamdem (Lepton Acturial LLC and New York University)
Moustapha Pemy (Towson University)

Using a Techno-Economic Framework for Understanding Why the Mining Industry isn't Ready for the Energy Transition

Scott McKnight (University of Toronto)
Dan Breznitz (University of Toronto)



Wednesday, May 31

1C: Sustainability, Firm Knowledge, and Patient Needs: The Evolving Factors of Hospital Performance (H)

Pfahl 230

Chair: Jonathan Phares (Iowa State University)

Knowledge Interdependence as a Double-edged Sword for Firm Innovation: The Role of Technological Shocks

Jingya You (University of Illinois at Urbana-Champaign)

Min Jung Kim (University of Illinois at Urbana-Champaign)

Investigating the Mediating Effect of Utilization on the Relationship Between Certificate of Need and Hospital Operational Performance

Jonathan Phares (Iowa State University)

David Dobrzykowski (University of Arkansas)

Patient Insurance Status and Healthcare Delivery: A Empirical Study of Providers' Behavioral Biases

Sriram Thirumalai (Neeley School of Business, TCU)

Subhankar Saha (Indian Institute of Management, Bengaluru)

Sarang Sunder (Indiana University)

Changing Perceptions on Environmental Sustainability and Social Responsibility in Healthcare

Tonya Boone (College of William and Mary)

1D: Software, Semiconductors, and AI (I&E)

Pfahl 330

Chair: Sung Hoon Lee (NEOMA)

Knowledge Resources, Entry Strategies, and Performance of Spinouts in Nascent Industries

Aliasghar Bahoo-Torodi (Bayes Business School, City University of London)

Roberto Fontana (University of Pavia)

Franco Malerba (Bocconi University)

Who Enters and When? Knowledge Relatedness, Entrant Heterogeneity, and Industry Characteristics

Sung Hoon Lee (NEOMA)

Roberto Fontana (Bocconi University)

Boundaries as Uncertain Process: University Relations with High Technology Firms

William Benton (Virginia Commonwealth University)

1E: Platforms & Supply Chain Management (OSTM)

Pfahl 140

Chair: Manav Raj (Wharton, University of Pennsylvania)

When Delivery Comes to Town: Digital Distribution Platform Penetration and Establishment Exit

Manav Raj (Wharton, University of Pennsylvania)

J.P. Eggers (New York University)

The Rise of B2B Platform in Supply Chain and Operations Management

Edward Anderson (University of Texas McCombs School of Business)

Jose Lopez (MIT Sloan School of Management)

Geoffrey G. Parker (Dartmouth College)



Wednesday, May 31

1F: Global Value Chains and National Policy (PPC)

Pfahl 340

Chair: Rafael A. Corredoira (Ohio State University)

Is It about Family? Family Ownership and High Value-Added Internationalization of Argentine Wineries

Rafael A. Corredoira (Ohio State University)

Gerald A. McDermott (University of South Carolina)

Industry 4.0 Technology Adoption in Middle-Income Economies: Evidence from Malaysia

Renato Lima-de-Oliveira (Asia School of Business and MIT Sloan)

Zhai Gen Tan (Asia School of Business)

Deborah Chow Yik Kuen (Asia School of Business)

Vaisnavi Mogan Rao (SOAS University of London)

1G: Product Launch and Market Competition in the Pharmaceutical Industry (H)

Pfahl 240

Chair: Hanu Tyagi (University of Minnesota)

Balancing Manufacturing, Packaging and Regulatory Approval in the Pharmaceutical Industry

Justin Kistler (University of Tennessee, Knoxville)

Lance Saunders (University of Tennessee, Knoxville)

Jason Merrick (Virginia Commonwealth University)

Balancing Speed-Safety Tradeoffs in the Drug Approval Process

Hanu Tyagi (University of Minnesota)

Rachna Shah (University of Minnesota)

Impact of Geopolitical Risks on Pharmaceutical Firms' Strategic Change and Performance

Marina Lugova (The University of Burgundy)

Jaideep Anand (The Ohio State University)

ISA SPECIAL SESSIONS | TWO OPTIONS, YOUR CHOICE

3:45 pm—5:00 pm

Pfahl 140

Innovative State Economic Development: JobsOhio's Origin, Structure, Successes, and Learnings

3:45 pm—5:00 pm

Blackwell Ballroom

Fireside Chat on Industrial Policy and the Role of the State

ISA WELCOME RECEPTION

5:30 pm—7:30 pm

Ohio Stadium

Walk southwest diagonally across the street to Ohio Stadium, home of the Ohio State Buckeyes football team. Enter between Gates 17 and 23, at the Huntington Club, on the west side of the stadium (5-10 minute walk). A "redcoat" (usher) should be there to greet you and point you to the elevator, starting at 5:30. Tours will be offered during the reception.



Wednesday, May 31

3:45—5:00 pm

Panelists' Bios

Special Session | Innovative State Economic Development: JobsOhio's Origin, Structure, Successes, and Learnings

Since its founding in 2011, the mission-oriented team at JobsOhio has supported over 3,400 economic development projects across ten industries ("traded clusters") with high productivity, wages, and economic impact. The targeted industries represent over 35% of Ohio's gross state product, over 20% of employment and nearly 30% of payroll. Traded clusters are the "engines" of regional economies and without strong traded clusters it is virtually impossible for a state or region to reach high levels of overall economic performance.

According to many objective measures, Ohio is now leading a Midwest economic resurgence. JobsOhio built a strategy for the future and the future is here. For example, in 2022:

- Intel announcing plans to invest more than \$20B in Ohio, establishing the state as the epicenter for advanced chipmaking in the Midwest. Intel coined it, "The Silicon Heartland."
- Ohio was upgraded to AAA (by Fitch) for the first time in history as Ohio's \$750B economy has a Top 10 ranking for diversity
- Honda and LG Energy Solution announced a \$3.5B EV Battery Plant strategically located between Dayton, Columbus and Cincinnati.

Learn more about Ohio's experience in fostering competitiveness and growth over the past decade in sectors such as [semiconductor manufacturing, cell & gene therapy and advanced air mobility, among others].



Andrew Deye, Vice President and Head of Strategy at JobsOhio, the state's private economic development corporation. In this role, Andrew leads strategy, global business development, research and data functions. Since its creation in 2011, JobsOhio and its regional partners have supported over 3,500 investment projects. Andrew is a member of the REDI Cincinnati Executive Committee and the State Economic Development Executives (SEDE) national steering committee. Prior to joining JobsOhio in 2015, Andrew was an investment banker for 8 years working on public-private partnerships, privatizations, financings and acquisitions. Andrew graduated from Georgetown University with a bachelor's degree in business administration and obtained a master's degree in public administration from the Harvard Kennedy School.



Wednesday, May 31

3:45—5:00 pm

Special Session | Fireside Chat on Industrial Policy and the Role of the State

Panelists' Bios

In 2021 and 2022, the 117th Congress passed legislation authorizing multiple substantial efforts to facilitate U.S. competitiveness in key technologies and industries. The Biden Administration is now deep into the process of implementing efforts, many of which are novel and complex. Effectiveness will be a function of the institutional mechanics for implementation, coordination, and strategy. crafting and implementing federal industrial policy. This conversation will discuss and assess the Biden Administration's approach to creating the necessary institutional mechanisms.

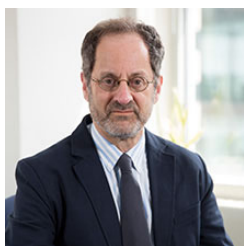
Discussants:



Steve Currall, Visiting Scholar, Paulson School of Engineering and Applied Sciences, Harvard University. Steve is a psychological scientist and academic administrator, served as president of the University of South Florida, and writes regularly on U.S. technology policy for *Issues in Science and Technology*. He previously served as a professorship of entrepreneurship in the George R. Brown School of Engineering at Rice University and founded the Rice Alliance for Technology And Entrepreneurship. Steve was lead author of *Organized Innovation: A Blueprint for Renewing America's Prosperity* (Oxford, 2014); served as a member of editorial review boards for *Academy of Management Review*, *Academy of Management Journal*, and *Organization Science*; and graduated from Cornell University with a Doctor of Philosophy in organizational behavior in 1990.



Robert Hockett, Professor of Law and Public Policy, Cornell University and *Forbes* columnist. Bob also is senior counsel at investment firm Westwood Capital, LLC, a Fellow at The Century Foundation, a commissioned author for New America Foundation, and regularly advises members of Congress on federal technology and competitiveness policies. With Saule T. Omarova, he recently wrote "Financing Continuous Development: The 'American Plan' of State Capitalism," for *The Oxford Handbook of State Capitalism*. Bob earned a Master's in Philosophy and Economics at Oxford University and LL.M. and J.S.D. degrees from Yale University.



Andrew Reamer, Research Professor, George Washington Institute of Public Policy, George Washington University and ISA board member. Andrew's research efforts aim to encourage U.S. economic competitiveness. His focus areas include strategic economic analysis and policy, innovation, entrepreneurship, workforce development, and the federal statistics system. Current research sponsors include the National Science Foundation, U.S. Census Bureau, the American Economic Association, the Lumina Foundation, and the Center for Regional Economic Competitiveness. For 20 years, he served as a consultant in U.S. regional economic development and public policy and received a Ph.D. in Economic Development and Public Policy from the

Massachusetts Institute of Technology.



Conference Program: Thursday, June 1

ISA Breakfast

7:30 am – 8:00 am

Blackwell Ballroom

WELCOME BY THE ISA PRESIDENT | Tonya Boone

OPENING PLENARY | The National Need and Vision for Critical Technology Assessment: Demonstrations of a Pilot National Network

8:00 am – 9:15 am

Blackwell Ballroom

ISA RESEARCH SESSIONS

9:30 am – 10:30 am

See Program Details

ISA RESEARCH SESSIONS

10:45 am – 11:45 pm

See Program Details

ISA BUSINESS MEETING LUNCHEON

12:00 pm – 1:00 pm

Blackwell Ballroom

ISA SPECIAL SESSIONS

1:15 pm – 2:15 pm

Technological Change & Competition in the Mobility Industry

1:15 pm – 2:15 pm

An Innovative Approach to Improving K-12 Education for High-Poverty Areas: Ohio's State BRIGHT MBA Program

ISA RESEARCH SESSIONS

2:30 pm – 3:30 pm

See Program Details

ISA PLENARY | U.S. Industrial Strategy: Where it Came From, Where It's Going, and Emerging Research Opportunities

3:45 pm – 4:45 pm

Blackwell Ballroom

ISA ANNUAL CONFERENCE RECEPTION

5:30 pm – 7:00 pm

AC Hotel | Rooftop: Edison and Watson



Thursday, June 1

8:00—9:15 am

Panelists' Bios

Opening Plenary | The National Need and Vision for Critical Technology Assessment: Demonstrations of a Pilot National Network

A one-year pilot project funded by the National Science Foundation's new Technology, Innovation, and Partnerships (TIP) Directorate, the National Network for Critical Technology Assessment (NNCTA) organizes academics in multiple disciplines across the U.S. to show how collaborative analytics can productively inform assessment of the nation's key technology focus areas and development of the National Science & Technology Strategy as called for in the CHIPS + Science Act of 2022.

Through a conversation with NNCTA Director and long-time ISA member Erica Fuchs, ISA conference attendees will learn about the design and pilot-testing of the NNCTA model; NNCTA assessments of four key technologies--artificial intelligence, semiconductors, advanced batteries, and the pharmaceutical supply chain; opportunities for academics to contribute to technology assessments; and options for continuation of the NNCTA beyond its pilot year.



Erica Fuchs is a professor in the Department of Engineering and Public Policy at Carnegie Mellon University, and a research associate with the National Bureau of Economic Research. Her research focuses on the development, commercialization, and global manufacturing of emerging technologies, and national policy in that context. She was the founding faculty director of Carnegie Mellon University's Manufacturing Futures Institute—an Institute across six schools aimed to revolutionize the commercialization and local production of advanced manufactured products. At the Massachusetts Institute of Technology, Erica earned a Ph.D. in Engineering Systems, a Masters in Technology Policy, and a Bachelors in Materials Science and Engineering.



Moderator: Andrew Reamer, Research Professor, George Washington Institute of Public Policy, George Washington University and ISA board member. Andrew's research efforts aim to encourage U.S. economic competitiveness. His focus areas include strategic economic analysis and policy, innovation, entrepreneurship, workforce development, and the federal statistics system.



ISA RESEARCH SESSIONS 9:30 am—10:30 am

2A: Ownership and Employment Practices (LMO&ER)

Pfahl 202

Chair: John Paul MacDuffie (University of Pennsylvania)

Institutional Perspectives on Private Equity and Employment: Evidence from Korea

Sang Hoon Han (The Ohio State University)

Rosemary Batt (Cornell University)

Are Workers Better Off in Firms They Own than in Firms Owned by Others?

Adrianto (University of Minnesota)

Avner Ben-Ner (University of Minnesota)

Ainhoa Urtasun (Universidad Pública de Navarra)

Toeing the Line: How Chains Influence Line Managers to Enact Human Resource Practices for Frontline Employees

Tashlin Lakhani (Cornell University)

Rosemary Batt (Cornell University)

Hyesook Chung (UT Dallas)

2B: Recent Advances in Batteries and Electric Vehicle (EP&S)

Pfahl 140

Chair: John Paul Helveston (George Washington University)

Meeting the Electric Vehicle Battery Demand: Evaluating a Region's Needs and Gaps to Build a Skilled Technical Workforce

Gigi Jones (SRI International)

Christiana McFarland (SRI International)

Annie Wyhof (SRI International)

Michael Lee (SRI International)

Chris Reid (SRI International)

Going the Distance: Quantifying Electric Vehicle Mileage in the United States

Lujin Zhao (George Washington University)

Eliese Ottinger (George Washington University)

John Paul Helveston (George Washington University)

Quantifying the Effect of Subsidies on the Residual Value of Plug-in Vehicles in the United States

Laura Roberson (George Washington University)

John Paul Helveston (George Washington University)

How Electric Vehicle Battery Chemistry Affects Exposure to Country-Specific Supply Chain Disruptions

Anthony Cheng (Carnegie Mellon University)

Valerie J. Karplus (Carnegie Mellon University)

Jeremy Michalek (Carnegie Mellon University)

Erica Fuchs (Carnegie Mellon University)

The Market for Used Battery Electric Vehicles: A Viable Transmission Mechanism for a New Vehicle Propulsion Technology?

Thomas Klier (Federal Reserve Bank of Chicago)

Leslie McGranahan (Federal Reserve Bank of Chicago)

Levi Bognar (Federal Reserve Bank of Chicago)



2C: Polices, Social Impact, & Innovation (I&E)

Pfahl 230

Chair: Shirley Tang (Washington University in St Louis)

Environmental Transparency and Value Appropriation from Innovation: Evidence from US Hydraulic Fracturing 2000-2020

Shirley Tang (Washington University in St Louis)

The Bright Side of Organizational Misconduct? Social Connectedness Between the Police and Small Business Communities

Cheng Wang (California State University Sacramento)

Dali Ma (Drexel University)

Reconceptualizing Business Models for Impact: How Exploring and Designing Business Models Can Lead to Fresh Perspectives on Competition and Collaboration in Social Enterprise Ecosystems

Alice de Koning (University of Calgary)

Kanwal Bokhari (University of Calgary)

2D: Biomedical Innovation & Entrepreneurship (I&E)

Pfahl 240

Chair: Lucy Xiaolu Wang (University of Massachusetts Amherst)

The Relationship between Government Innovation Funding and the Likelihood of Venture Capital, IPO, and Acquisition in Genomics

Jennifer Woolley (Santa Clara University)

Physical Infrastructure and Entrepreneurial Search: Evidence from Healthcare Foundings

Sunasir Dutta (University of Minnesota)

Maria Roche (Harvard Business School)

Daniel Armanios (Oxford University)

Is Grass Greener in the Gray Zone? Legalization and Innovation in the Cannabis Market

Lucy Xiaolu Wang (University of Massachusetts Amherst)



2E: Managing Global Production Networks (OSTM)

Pfahl 302

Chair: Oliver von Dzengelevski (ETH Zurich)

Digitalization of Integrated Value Chains: A semantic Analysis of Supply Chain Literature Published in the First 18 months of the Covid-19 Pandemic and Implications for Future Research Opportunities

Larry Wigger (University of Missouri-Kansas City)

Anthony Vatterott (University of Missouri-Columbia)

Configuration of Global Production Networks and Covid-19 Resilience

Oliver von Dzengelevski (ETH Zurich)

John Gray (Ohio State University)

Torbjorn Netland (ETH Zurich)

Pharmaceutical Supply Chain Resilience: Modular Reconfiguration Options Enabled by Manufacturing Technological Interventions

Ettore Settanni (Institute for Manufacturing, University of Cambridge)

Jagjit Singh Srani (Institute for Manufacturing, University of Cambridge)

Nitin R. Joglekar (Questrom School of Business, Boston University)

Using Text Analytics to Classify and Quantify the Impact of Social Sustainability Issues on Global Firms and Their Supply Chains

Soh Hyun Chu (Ohio State University)

Christian Blanco (Ohio State University)

James Hill (Ohio State University)

2F: Geopolitics and Competition (PPC)

Pfahl 330

Chair: Angela Garcia Calvo (Henley Business School)

A fragmented internet? A Comparative Analysis of Emerging Governance Systems in the US, the EU, China, India and Russia

Angela Garcia Calvo (Henley Business School)

Martin Kenney (UC Davis)

John Zysman (UC Berkeley)

Merger Control or Control Merger? The US-China National Competition and Cross-Border M&A in High-Tech Sectors

Qiang Yu (Shandong University of Science and Technology)

Evolving Robotic Regions in the United States

Nancey Green Leigh (Georgia Institute of Technology)

Heon Yeong Lee (Georgia Institute of Technology)

Jeremy Ward (Georgia Institute of Technology)

Philip Carnell (Georgia Institute of Technology)

Christopher A. Karam (Georgia Institute of Technology)

How Do Domestic and Foreign Firms Respond to a Controversial Reduction in Competition from the Public Sector?

Anant Mishra (University of Minnesota, Carlson School of Management)

Arzi Adbi (NUS Business School - National University of Singapore)

Chirantan Chatterjee (University of Sussex Business School)



Thursday, June 1

2G: Scale, Agglomeration, and Performance (OSTM)

Pfahl 340

Chair: Canberk Ucel (Bilkent University/INSEAD)

Industrial Agglomeration, Spatial-Temporal Evolution and its Driving Factors: Spatial Interaction in Chinese Industrial Sector

Shah Fahad (School of Economics and Management, Leshan Normal University, China)

Is Bigger Better? Exploring Returns to Scale and Specialization in US Industrial Corn and Soybean Farming Using Big Farm Data

Canberk Ucel (Bilkent University/INSEAD)

Comparing Different Empirical Approaches to Quantifying Blue Economy Clusters

Christopher Smith (University of Southern Mississippi)

ISA RESEARCH SESSIONS 10:45 am–11:45 am

3A: Human Capital and Technology (LMO&ER)

Pfahl 302

Chair: Christophe Combemale (Carnegie Mellon University)

Can Human Resource Digitization in Developing Countries Attract and Retain International Talent?

Sohaib Mustafa (Beijing University of Technology)

Shifting, Not Shrinking? Exploring Labor Roles in Traditional and Automated Taxi Services

Leah Kaplan (The George Washington University)

Zoe Szajnfarber (The George Washington University)

John Paul Helveston (The George Washington University)

How Robotics Affects Employment and Skills of Low and High-Skill Workers? Evidence From US Manufacturing Plants in 2010-2022

Adrianto (University of Minnesota)

Avner Ben-Ner (University of Minnesota)

Ainhoa Urtasun (Universidad Pública de Navarra)

Analysis of the Effects of Innovation Investments on the Technical Progress of the Plastics Industry in Bogotá Colombia

Andres Giovanni Guarin Salinas (Universidad Libre)

Javier Hernando García-Estevez (Universidad de los Andes)

3B: The Circular Economy, Voluntary Reporting and Crossborder Carbon and Energy Trade (EP&S)

Pfahl 202

Chair: Meagan Reid (Silverado Policy Accelerator)

Measuring Carbon Across Borders: A New Paradigm in Trade

Meagan Reid (Silverado Policy Accelerator)

Is the Energy Transition Possible Without Russia? Developing a Vulnerability Index for Russia's Minerals for Low-Carbon Technologies

Scott McKnight (University of Toronto, Munk School of Global Affairs)

Technological Trajectories in the Circular Economy: A Patent Citation Network Approach

Marco Cucculelli (Marche Polytechnic University)

Enrico Alessandri (University of Bologna)

Riccardo Cappelli (Marche Polytechnic University)

Jasmine Mondolo (Marche Polytechnic University)

Do Companies that Voluntarily Publish ESG Reports Significantly Outperform their Peers on the E Side?

Chenhui Zhang (The University of Chicago)



3C: Knowledge and Creativity (I&E)

Pfahl 240

Chair: Kenny Ching (Worcester Polytechnic Institute)

Intellectual Property Protection and Innovative Entrepreneurship: The Case of the Mountain Bike Industry

Kenny Ching (Worcester Polytechnic Institute)

Innovation of Entertainment Entrepreneurs: A Case Abstract of Entrepreneurship Orientation in Understanding Behaviors of Founder-CEOs

John F. LeCounte (Tarleton State University)

Makayla Thompson (Tarleton State University)

Knowledge Modularity, Knowledge Relatedness, and Firm Entry

Sung Hoon Lee (NEOMA)

Product Expansion and the Role of a Customer Portfolio

Yeojin Kim (UNC Chapel Hill)

Sekou Bermiss (UNC Chapel Hill)

3D: Rate and Direction of Innovation (I&E)

Pfahl 330

Chair: Claudia Gonzalez Brambila (ITAM)

The Impact of Knowledge Creation of Mexican Engineering

Claudia Gonzalez Brambila (ITAM)

Ignacio Ponce (ITAM)

Choose Your Uncertainty: Entrepreneurial Strategy in the Evolution of the Lithium-ion Battery Industry

Ali Alghareeb (University of Maryland)

Brent Goldfarb (University of Maryland)

David Kirsch (University of Maryland)

Gaining Advantages from Legacy: The Role of Prior Market Experiences in Incumbents' Adaptation to Technological Discontinuities

Chang Liu (Bocconi University)

Roberto Fontana (Bocconi University)

3E: Expert Panel Discussion: The Role of Digitally-Enabled Business Models in Operations Innovation (OSTM)

Pfahl 140

Chair: Edward Anderson (University of Texas McCombs School of Business)

Panelists:

Nitin Joglekar (Boston University)

Geoffrey Parker (Dartmouth College)

Jagjit Singh Srani (University of Cambridge)

Burcu Tan Erciyas (University of New Mexico)



Thursday, June 1

3F: FDI and Local Development (PPC)

Pfahl 230

Chair: Anna Lamin (Northeastern University)

Marginal Effect of Location Centrality vs. Firm Embeddedness in FDI Networks on Firm Productivity

Soni Jha (Temple University)

Snehal Awate (Indian Institute of Technology Bombay (IIT-Bombay))

Ram Mudambi (Fox School of Business, Temple University)

The Evolution of Agglomeration and Location Choice Among Emerging Market Firms: Software Firms in Bangalore

Anna Lamin (Northeastern University)

Vijay Venkataraman (Indian Institute of Management, Bangalore)

Sachidananda Benegal (Indian Institute of Management, Indore)

Reactance and the Emergence of the Counter-Drone Industry

Almantas Palubinskas (Emlyon Business School)

Grégoire Croidieu (Emlyon Business School)

3G: Sustainable Development in Global Value Chains (OSTM)

Pfahl 340

Chair:

Role of Domestic Renewable Energy Plants in Combating Energy Deficiency in Developing Countries. End-User Perspective.

Sohaib Mustafa (Beijing University of Technology)

Why Are Farmers Not Adopting "Good" Practices? A Micro-Level Exploration of Information, Skills and Resource Constraints on Practice Adoption Among Philippine Smallholder Farmers

Canberk Ucel (Bilkent University)

Improving Smallholder Farm Productivity and Addressing Poverty Through Disseminating Operational Practices: Are "Good" Agricultural Practices Good Enough?

Canberk Ucel (Bilkent University/INSEAD)

ISA BUSINESS MEETING LUNCHEON

12:00 pm—1:00 pm

Blackwell Ballroom

ISA SPECIAL SESSIONS | TWO OPTIONS, YOUR CHOICE

1:15 pm—2:15 pm

Blackwell Ballroom

Technological Change and Competition in the Mobility Industry

1:15 pm—2:15 pm

Pfahl 140

An Innovative Approach to Improving K-12 Education for High-Poverty Areas: Ohio State's BRIGHT MBA Program



Thursday, June 1

1:15—2:15 pm

Panelists' Bios

Special Session | Technological Change and Competition in the Mobility Industry

This session explores technological change and the associated competitive dynamics in the mobility industry, combining research-based presentations from academics and perspectives from industry practitioners.

The mobility industry has experienced a long period of technological stability, characterized by one “dominant design”, the industrial combustion engine (ICE). However, in response to a variety of technological, economic, and social forces, the sector has begun a profound transformation. A series of new technologies have emerged, challenging the ICE-based dominant design and, thus, threatening the competitive structure of the industry. This set of trends, often referred to as CASE, includes connectivity, autonomy, sharing, and electrification. As predicted by the management literature, this transformative phase has brought uncertainty into the industry, ultimately leading to experimentation with new technologies, incumbents who are reorienting their strategies, and entry by new players.



Moderator: Andrea Contigiani (Ohio State University)

Andrea Contigiani (Ohio State University) will engage the speakers in discussion, first with each other and then with the audience.



Presenter: Joan Smith, Honda Research Institute

Joan Smith, a strategy executive actively involved in Honda’s research on new mobility technologies, will give a summary of Honda’s current approach to the CASE technologies (Connected Autonomous Shared Electric), emphasizing the company’s Cooperative Intelligence approach to vehicle automation.



Presenter: Daniel Wilde, Kelley School of Business, Indiana University

Daniel Wilde will discuss the reaction of existing automakers to the new technological trends transforming the industry. Based on his recent work (Wilde, 2023), he explores the role of managerial cognition in driving automakers’ strategic decisions. He argues that, depending on the variation of top management teams’ and middle managers’ beliefs regarding emerging technologies, automakers made different investment decisions in the technologies, which has implications for firms’ performance and the industry’s competitive structure.



Presenter: John Paul MacDuffie, Wharton School, University of Pennsylvania

John Paul MacDuffie will discuss the increasing centrality of software in the automotive industry. New entrants making battery-electric vehicles are competing, in part, by leveraging an innovative architecture, i.e., starting with the overall software design and then designing the hardware around it. In contrast, incumbent automakers have, up until now, taken a function-by-function approach to developing software. When software is the starting point for vehicle design, enabling the new mobility technologies, how will the current product and industry architecture change?



Thursday, June 1

1:15–2:15 pm

Panelists' Bios

Special Session | An Innovative Approach to Improving K-12 Education for High-Poverty Areas: Ohio State's BRIGHT MBA Program

In Ohio, there are over 2,000 schools in underserved districts representing over 600,000 students in both urban and rural areas. These schools face a broad set of challenges, however some schools transcend these challenges and deliver excellent outcomes. Previous research has highlighted the key role played by transformational leaders in transcending the challenges facing underserved schools. However, there is clearly a shortage of people with extraordinary leadership skills, knowledge of the public education context, and willingness to devote their lives to education. The BRIGHT Institute at the Ohio State University is designed to address this shortage. Through a unique partnership between the Fisher College of Business and the College of Education and Human Ecology (EHE) the institute identifies, recruits, and develops extraordinary leaders from varied professions and places them in underserved public schools struggling with low achievement. In this session, we will describe the context and highlight the labor market challenges facing underserved schools. We will then describe the program that has been designed to navigate these challenges and highlight future opportunities and ongoing challenges. We will use this contextual information to support a discussion of research opportunities in this unique and impactful space.

Presenters:



John Rensink, Senior Director of the Bright Initiative. He has worked in higher education for nearly 2 decades building a career around preparing exceptional leaders and developing and guiding exceptional educational programs. Before his appointment to BRIGHT, he led Fisher's 9th ranked Executive MBA program and several custom executive leadership programs for Fortune 100 companies. John has a profoundly curious and thoughtful nature, an instinct to lead and inspire others and a constant drive to seek improvement in himself and the world around him. He is a proud father and husband.



Ben Campbell, PhD, Professor of Management at the Max M. Fisher College of Business at the Ohio State University. He has a BS in Mathematics from The Ohio State University and a PhD in Economics from the University of California at Berkeley. His research focuses on Strategic Human Capital and on understanding how people can create the most value within organizations.

Two previous alumni who are serving as leaders in underserved school districts as principals or superintendents.



ISA RESEARCH SESSIONS 2:30 pm—3:30 pm

4A: The Organization of Work (LMO&ER)

Pfahl 230

Chair: Kaifeng Jiang (The Ohio State University)

Exploring Local Social Capital Development in Remote Work Contexts
Sarah Soroui (Brandeis University)

The Value of Pecuniary and Non-Pecuniary Job Amenities for Students: Evidence from a Field Experiment

Amanda Chuan (Michigan State University)
Hye Jin Rho (Michigan State University)

Competitive Familiarity: Learning to Coordinate by Competing
Enrico Forti (Manhattan College, O'Malley School of Business)
Kenny Ching (Worcester Polytechnic Institute)
Evan Rawley (University of Connecticut)

Engagement and Retention of Higher Education Remote Employees Through Emerging Practices
Lisa M. Harris (City University of Seattle)
Christina Gehrke (City University of Seattle)

Beyond the Individual: How Distributed Cognition Shapes Prospective Sensemaking
Dinesh Poudel (University of Jyväskylä)
Juhani Merilehto (University of Vaasa)

4B: Economic Models and Competitiveness (GIS)

Pfahl 330

Chair: Miguel Angel Ariño (IESE Business School. University of Navarra)

A Way to Measure Economic Uncertainty
Miguel Angel Ariño (IESE Business School. University of Navarra)

Vertical Integration and Corporate Lobbying
Hyunjoo Oh (Washington University in St. Louis)

4C: Platforms & Ecosystems (I&E)

Pfahl 202

Chair: Najoung Lim (Melbourne Business School)

From Generative to Exclusionary: How Ecosystems Evolve with Coordination and Standardization
Cameron D. Miler (Syracuse University)
Puay Khoon Toh (University of Texas at Austin)

Research on the Internal Governance of Research and Development and Transformation Functional Platforms from the Perspective of Equilibrium and Stability
Yuhong Cao (Shanghai University)
Yongjiang Shi (Cambridge University)

The Co-evolution of Startup Accelerators and Startups: A Viewpoint of Complex Adaptive System
Ching-Yan Wu (National Tsing Hua University)
Ming-Chin Tsao (National Tsing Hua University)

Center to Component to Complement: Incumbents' Product Strategy in Response to Ecosystem Emergence
Najoung Lim (Melbourne Business School)



4D: The Regulation of Healthcare Products and Services (OSTM)

Pfahl 302

Chair: Finn Petersen (Carlson School of Management, University of Minnesota)

Improving Inspection Resource Allocation to Mitigate Organizational Misconduct
Finn Petersen (Carlson School of Management, University of Minnesota)
Rachna Shah (Carlson School of Management, University of Minnesota)

Why and Where Do We Inspect? An Empirical Analysis of FDA Human Drug Inspections and Serious Drug Adverse Events
Zachary Wright (Ohio State University)
In Joon Noh (Pennsylvania State University)
John Gray (Ohio State University)

Complete and Accurate?: Institutional Influences on the Production of Public Health Data
Elina S Hoffmann (Carnegie Mellon University)
Valerie J Karplus (Carnegie Mellon University)
Erica Fuchs (Carnegie Mellon University)

Short-Term Economic Dynamism as a Policy Tool to Address Supply Shortages During Crises: Insights from the Varieties of Firm Entry into Domestic Mask and Respirator Production During COVID-19
Nikhil Kalathil (Carnegie Mellon University)
Granger Morgan (Carnegie Mellon University)
Erica Fuchs (Carnegie Mellon University)

4E: Assessing U.S. and Local Regulatory Policy (PPC)

Pfahl 140

Chair: Eppa Rixey (Massachusetts Institute of Technology, Sloan School of Management)

The Labor Market Effects of Occupational Licensing in the Public Sector
Wenchen Wang (University of Minnesota Twin Cities)
Morris Kleiner (University of Minnesota Twin Cities)

From the State to the Cities: Local Firm Regulatory Influence via Civic Legitimacy
Eppa Rixey (Massachusetts Institute of Technology, Sloan School of Management)

Let's Make a Deal: Business Attraction Incentives and Home Prices
Adams Bailey (University of North Carolina at Chapel Hill)
Jeremy Moulton (University of North Carolina at Chapel Hill)
Scott Wentland (Bureau of Economic Analysis)

America's Global Competitiveness at an Inflection Point: Emergence of a New Era of Federal Innovation Strategy?
Steven C. Currall (Harvard University/University of South Florida)
Venkatesh Narayanamurti (Harvard University)



Thursday, June 1

3:45—4:45 pm

Panelists' Bios

Plenary | U.S. Industrial Strategy: Where it Came From, Where It's Going, and Emerging Research Opportunities

In the first two years of the Biden administration, the United States has enacted major new policies to support the economic competitiveness of key technology-based industries such as semiconductors and electric vehicles. This panel of scholars, each of whose work aims at practical application, will assess this surprising turn, place it in historical and comparative context, and identify opportunities for ISA members to contribute to the ongoing policy debate.



Moderator: Peter Coy, economics and business columnist, *New York Times*. Prior to joining the *NYT* in 2021, Peter was economics editor for *BusinessWeek* and *Bloomberg BusinessWeek* for 32 years.

Panelists



David Hart, Professor, Schar School of Policy and Government, George Mason University, and Non-resident Fellow, Center for Clean Energy Innovation, Information Technology and Innovation Foundation -- David specializes in technology, science, and innovation policy and its governance at the regional, national, and global levels. He served as assistant director for innovation policy, with a focus on advanced manufacturing, at the Office of Science and Technology Policy (OSTP), Executive Office of the President, in 2011-2012.



Liz Reynolds, Partner, Unless, and Lecturer, Department of Urban Studies and Planning, MIT -- Liz was Special Assistant to President Biden for Manufacturing and Economic Development (2021-2022). At the National Economic Council, she led efforts on supply chain response and resilience, advanced manufacturing agenda, and broader U.S. industrial strategy. Prior to working at the White House, Liz was Executive Director of MIT's Industrial Performance Center (2010-2021) and Executive Director of the MIT Task Force on the Work of the Future (2018-2021).



Todd Tucker, Director of Industrial Policy and Trade, Roosevelt Institute -- A political scientist, Todd helps lead Roosevelt's work on the role of governance and institutions (both national and international) in facilitating economic transformation. Recent co-authored publications include "Industrial Policy Synergies: Reflections from Biden Administration Alumni," "Seven Ways the Executive Branch Can Turbocharge Green Industrial Policy," and "Everything is Climate Now: New Directions for Industrial Policy from Biden's Supply Chain Reports."



Thursday, June 1

ISA ANNUAL CONFERENCE RECEPTION

5:30 pm – 7:00 pm

AC Hotel | Rooftop: Edison and Watson

Meet in Blackwell lobby for bus. 56 seat bus departs at 5:15pm, then approximately every 20-25 minutes until 6:15pm or so (10 minute drive each way; bus will be looping between Blackwell and AC Hotel). Uber/Lyft or walking encouraged. AC hotel is a 2.5 mile walk through campus and down Neil Avenue or ~4 mile Uber/Lyft. Most suggested dinner restaurants are in between the AC Hotel and the Blackwell (see map page 30).

The 56 seat bus will also depart the AC Hotel at ~7:00pm and every ~20-25 minutes thereafter until ~8:45pm.

NIGHT OUT IN COLUMBUS – ENCOURAGED

We recommend walking east and north (see map page 38) towards Short North.

Reservations required for most dinner locations

Dinner Recommendations:

(note: North Market across the street closes at 7pm)

Short North:

- Town Hall Short North. Healthy food, great service, pretty casual
- Guild House. Finer dining, very good
- Marcella's Short North. Solid, always good, Italian Food
- Rooh. "Progressive Indian Food"
- FYR Short North. New, In Hilton near convention center (slightly south on High Street)
- Del Mar. Seafood
- Forno. Good Italian
- Northstar Café. Casual farm to table
- El Segundo. Mexican (or, Bakersfield; also Mexican)
- Lots of other places... google!

German Village (Uber)

- Chapman's Eat Market (very hard to get reservations; very good)
- Lindey's (often rated best restaurant in Columbus)
- Valters at the Maennerchor (Good German)
- Schmidt's (fun German...usually music)

Bar Recommendations:

- Ginger Rabbit Jazz Bar. Two seatings for 90 minutes each nightly. Reservations Required
- Short North Pint House. Large Sports Bar (decent food, too)
- Union. LGBTQ bar (anyone welcome, of course) Food, as well.
- Lincoln Social Rooftop
- Mandrake Rooftop (a bit fancier...directly above Town Hall)
- Standard Hall (big outdoor space; great if good night). Decent food, too
- Oddfellows (can get "Mikey's Late Night Slice" after on its patio)
- Alibi Bourbon & Cocktail Lounge. Cozy, good liquor selection
- PINS Mechanical. Probably Uber. Fun, large place with games and good drinks.
- Lots of other places... google!

Take a walk back to the Blackwell Inn or Uber/Lyft from Short North



Conference Program: Friday, June 2

ISA BREAKFAST

7:30 am – 8:00 am

Blackwell Ballroom

PLENARY | Supply Chain Resilience: New Perspectives and Polices

8:00 am – 9:15 am

Blackwell Ballroom

ISA RESEARCH SESSIONS

9:30 am – 10:30 am

See Program Details

ISA RESEARCH SESSIONS

10:45 am – 11:45 am

See Program Details

LUNCH and ISA AWARDS CEREMONY

12:00 pm – 1:00 pm

Blackwell Ballroom

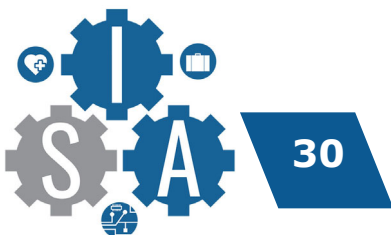
CONFERENCE ADJOURNS

1:00 pm

OPTIONAL NO HOST COLUMBUS BREWERIES LED BY JOHN GRAY, ISA VP

2:00 pm–5:00pm

*Meet in Blackwell Lobby



Friday, June 2

8:00—9:15 am

Panelists' Bios

Plenary | Supply Chain Resilience: New Perspectives and Policies

This panel will cover:

- Supply chain continuity capabilities to achieve both competitiveness and resilience
- Supply chain forecasting to anticipate points of vulnerability, i.e. price volatility and shortages
- Supply chain metrics allowing assessment of strength/vulnerability by national and regional governmental actors, analogous to stress tests for banks
- Supply chain information issues – how transparent, how reliable, how widely shared – to boost resilience and allow better preparation for future disruptions and crises



Moderator: John Paul MacDuffie, Professor of Management at The Wharton School, The University of Pennsylvania

John Paul MacDuffie will present a capability-based approach to how firms can achieve supply chain continuity when faced with catastrophic events, without sacrificing supply chain competitiveness. Both continuity and competitiveness are pursued simultaneously via ambidextrous switching between “continuity-first” and “competitiveness-first” modes. Building capabilities to shift between modes can make it possible for both competitiveness and resilience to improve. We draw on Toyota as the focal case, with examples from other countries and industries.



Elisabeth Reynolds, Department of Urban Studies, MIT, Former Special Assistant to the President for Manufacturing and Economic Development

Elisabeth B. Reynolds will provide case examples of supply chain challenges that emerged for the U.S. in the past two years. She will discuss how public policies and private sector practices including an emphasis on profits and efficiency over resilience, played a critical role in a number of the country’s supply chain crises including with ports, fish, baby formula and rail. She will speak to the Biden Administration’s response to these crises and how policies and practices have changed (or not) going forward.



Susan Helper, Industrial Strategy Analyst, Office of Management and Budget

Susan Helper will speak about current efforts in the federal government to support building future supply chains for energy transition with an emphasis on resilience as well as efficiency. Goals include: 1) developing policy aimed at specific climate-related industries, e.g., solar power, wind power, electric vehicles; 2) techniques for assessing supply chains, i.e., new approaches to forecasting volatility and vulnerability to price spikes and shortages and creation of “stress tests”; and 3) promoting innovation in methods of public and private procurement for less rigidity, greater timeliness, more implementation of supply chain best practices, and better alignment with climate goals



Friday, June 2

ISA RESEARCH SESSIONS 9:30 am—10:30 am

5A: Labor Markets, Education, and Training (LMO&ER)

Pfahl 330

Chair: Benjamin Campbell (The Ohio State University)

How Things are Made Matters: The Effects of Technology on the Organization of Work

Adrianto (University of Minnesota)
Avner Ben-Ner (University of Minnesota)
Ainhua Urtasun (Universidad de Navarra)

Resource Redeployment as an Entry Advantage in Resource-Poor Settings

Jasmina Chauvin (Georgetown University)
Carlos Inoue (University of Illinois)
Christopher Poliquin (UCLA Anderson)

Using Administrative Data to Analyze Skilled Technical Workforce Career Transitions

Kyle Albert (George Washington University)
Andrew Reamer (George Washington University)
Allison Forbes (Center for Regional Economic Competitiveness)

5B: Inclusion and Economic Competitiveness (GIS)

Pfahl 202

Chair: Laura Taylor-Kale (Council on Foreign Relations)

The Value of Openness vs. Exclusivity: How Boundary Work Cultivates Porous Boundaries in Meta-Organizing

Laura Taylor-Kale (Council on Foreign Relations)

Breaking the Glass Bottleneck: The Economic Potential of Black and Hispanic Real Estate Developers and the Constraints They Face

Peter Eberhardt (Initiative for a Competitive Inner City)
Howard Wial (Initiative for a Competitive Inner City)
J.B. Schramm (Grove Impact)
Derwin Sisnett (Grove Impact)
Laura Maher (Siegel Family Endowment)

Procurement of Reproductive Health Commodities in LMICs: The Impact of Female Decision-Makers

Dwaipayan Roy (Darden Graduate School of Business, University of Virginia)
Amir Karimi (Carlos Alvarez College of Business The University of Texas at San Antonio)

Disparities in Federal Contracting are Prevalent but Unevenly Distributed by Race, in STEM-intensive Industries and Biden Margin

Dwaipayan Roy (Darden Graduate School of Business, University of Virginia)
Chris Parker (Kogod School of Business American University)



5C: Capabilities and Learning (I&E)

Pfahl 240

Chair: Joonho Oh (University of North Carolina at Chapel Hill)

How Friends May Become Foes: The Origins of Market Entry of Complementors in New Technology Generations

Chang Liu (Bocconi University)

Roberto Fontana (University of Pavia and Bocconi University)

Franco Malerba (Bocconi University)

Peers as a Source of New Knowledge and Information: Exploring Evidence and Conditions for Peer Learning in Accelerators

Joonho Oh (University of North Carolina at Chapel Hill)

Spinning an Entrepreneurial Career: Motivation, Attribution & the Development of Organizational Capabilities

Hyeonsuh Lee (West Virginia University)

Sonali K. Shah (University of Illinois at Urbana-Champaign)

Rajshree Agarwal (University of Maryland)

Competency Traps in Industrial Innovation Collaborations

Nehal Elhelaly (Mansoura University, Egypt)

Sourav Ray (University of Guelph and McMaster University, Canada)

Shadow of Crisis: The Spillover Effect of Litigation on Peer Firm Innovation

Mingtao Xu (Tsinghua University)

Yifan Liu (Tsinghua University)

Jizhen Li (Tsinghua University)

5D: Entrepreneurship and Venture Funding (I&E)

Pfahl 230

Chair: Jennifer Woolley (Santa Clara University)

The Influence of Gender, Work Experience, and Education on the Likelihood of Raising Venture Capital and IPO in Genomics

Jennifer Woolley (Santa Clara University)

How Race and Gender Stereotypes Impact Crowdfunding Outcomes

Anthonia Carter (Cornell University)

Atishay Jain (Carnegie Mellon University)

Hoda Heidari* (Carnegie Mellon University)

Cristobal Cheyre* (Cornell University)

Why Unicorns Exist: Venture Scalability and the Valuation and Timing of Startup IPOs

Deepak Somaya (University of Illinois at Urbana-Champaign)

Jingya You (University of Illinois at Urbana-Champaign)

How Incumbent Firms Cope with Economic Policy Uncertainty: The Case of Corporate Venture Capital Investments

Yongwook Paik (KAIST College of Business)

Sunu Kim (KAIST College of Business)



Friday, June 2

5E: Know-How and Technological Innovation (OSTM)

Pfahl 302

Chair: Benn Lawson (University of Oxford)

I, Google: Estimating the Impact of Corporate Involvement on AI Research
Daniel Yue (Harvard Business School)

Collaboration as the Best Medicine: Charting the Evolution of Process Innovations in Pre-Competitive Pharmaceutical Networks

Jagjit Singh Srani (University of Cambridge)
Tomas Harrington (University of East Anglia)
Nitin Joglekar (Boston University)

How Does Transparency Impact Technological Novelty? Evidence from Large Pharmaceutical Firms.

Hanu Tyagi (University of Minnesota)
Manuel Hermsilla (Johns Hopkins University)
Rachna Shah (University of Minnesota)

Rosy Signals and Postponement: Teeing Up Future Risk in Maintenance Operations

Mateus do Rego Ferreira Lima (Ohio State University)
Elliot Bendoly (Ohio State University)
Nathan Craig (Ohio State University)
Ken Boyer (Ohio State University)

5F: Grand Strategies (PPC)

Pfahl 140

Chair: Roosa Oinasmaa (Jyväskylä University School of Business and Economics)

Principles, Purpose, and the Bigger Picture: Making Sense of an Industrial Grand Strategy

Roosa Oinasmaa (Jyväskylä University School of Business and Economics)

The Foundations of Interventionist Industrial Policy: Why the Free Market Alone Can't Give a Nation the Most Valuable Industries

Ian Fletcher (Coalition for a Prosperous America)
Marc Fasteau (Coalition for a Prosperous America)

Business & World's Future at War: Economic, Digital, Health and Geopolitical Disruptors in the 21st Century

Jean Narcisse Djaha (CEDs Paris & KOFF Global Corporation)



Friday, June 2

ISA RESEARCH SESSIONS 10:45 am—11:45 am

6A: Location and Innovation (I&E)

Pfahl 340

Chair: Rafael Corredoira (The Ohio State University)

Does Institutional Context Matter for How Gender Influences Innovation? The Heterogeneous Impact of Gender Diversity on Technological Evolution

Zeynep Yavic (The Ohio State University)

Rafael Corredoira (The Ohio State University)

How Did Milan Emerge as the Hub of the Italian Fashion Industry?

Sandeep Pillai (Bocconi University)

Valeria Glacomin (Bocconi University)

Geographic Agglomeration of Industry and the Gender Gap in Employee Entrepreneurship

Pyung (Joe) Nahm (University of Minnesota)

The Unintended Consequences of Demand for Innovation for Inventor Mobility and Productivity

Jino Lu (University of Southern California)

6B: National Systems of Development and Industrial Policy (PPC)

Pfahl 302

Chair: Guendalina Anzolin (University of Cambridge)

Technology, Supply Chain and Workforce Development: How RTOs Foster Regional Industrial Competitiveness. The Case of Digital Manufacturing.

Guendalina Anzolin (University of Cambridge)

Eoin O'Sullivan (University of Cambridge)

The Symbiotic Role of Centralized and Country-Specific Institutions in Addressing Product Shortages

Afonso Amaral (Carnegie Mellon University)

M. Granger Morgan (Carnegie Mellon University)

Joana Mendonca (University of Lisbon)

Erica R.H. Fuchs (Carnegie Mellon University)

Promoting Collaboration, but at What Cost? The Unintended Consequences of Single-Sided Collaboration Promotion Policy

Joonho Oh (University of North Carolina at Chapel Hill)

Improving Agricultural Policymaking and Interventions for Sustainable Innovation Adoption: Tackling Behavioural Barriers for Smallholder Rice Farmers

Nopparuj Chindasombatcharoen (University of Cambridge)

Mukesh Kumar (University of Cambridge)

Eoin O'Sullivan (University of Cambridge)

6C: Digital Technology Implementation in Practice: A Study of Ohio Small/Medium Manufactures (LMO&ER)

Pfahl 140

Chair: Anna Waldman-Brown (MIT Industrial Performance Center)

Panelists: Simon Schumacher (Fraunhofer IPA)

Christophe Combemale (Carnegie Mellon University)

Roland Hall (Fraunhofer IPA)



Friday, June 2

6D: Sustainability and Technology Research in the Trucking Industry (OSTM)

Pfahl 202

Chair: Alex Scott (University of Tennessee-Knoxville)

Utilization of the American Long-Haul Truck Driver

David Correll (MIT)

Chris Caplice (MIT)

Guillaume Weisang (Potenstats)

Bobby Martens (Iowa State University)

The Effect of Diesel Taxes on Over-the-road Freight Rates

Andrew Balthrop (University of Arkansas)

Alex Scott (University of Tennessee-Knoxville)

Nudging Organizational Drivers to Reduce Truck Idling: An Experiment in the Field on the Efficacy of Messaging

Saif Mir (Lehigh University)

Stephanie Eckerd (University of Tennessee-Knoxville)

John Aloysius (University of Arkansas)

Adverse Selection and Online Platforms: Evidence from Amazon's Digital Freight Platform

Alex Scott (University of Tennessee-Knoxville)

Zenan Zhou (Arizona State University)

6E: Industrial Transformation in the Emerging Sectors (I&E)

Pfahl 230

Chair: Shih-Hsin Chen (National YangMing ChiaoTung University)

Managing Biotech Industry Innovation Amidst Geopolitical Challenges: Cases of Taiwan and Singapore

Yujia He (Patterson School of Diplomacy and International Commerce University of Kentucky)

ShihHsin Chen ((National YangMing ChiaoTung University)

Xue Gong (S. Rajaratnam School of International Studies, Nanyang Technological University)

The Key Determinants of the Industrial Transformation of the Biotechnology and Pharmaceutical Industry in Taiwan and India: A Comparative Case Studies

ShihHsin Chen (National YangMing ChiaoTung University)

Hung-Chi Chang (National YangMing ChiaoTung University)

Sachin Kumar Singh (NIPER)

Balabadratrani Lakshmi (NIPER)

Deepika Chilkuri (NIPER)

Determinants of the Industrial Transformations of Intelligence Technology Industry

Hung-Chi Chang (National YangMing ChiaoTung University)

ShihHsin Chen (National YangMing ChiaoTung University)

The Key Determinants of the Industrial Transformation of the Energy Sector

WenHsin Chi (National YangMing Chiao Tung University)

Shih-Hsin Chen (National YangMing Chiao Tung University)

Hung-Chi Chang (National YangMing Chiao Tung University)



Friday, June 2

ISA AWARDS CEREMONY LUNCHEON

12:00 pm — 1:00 pm

Blackwell Ballroom

Sessions Conclude at 1:00 pm

OPTIONAL NO-HOST COLUMBUS BREWERIES "TOUR" LED BY JOHN GRAY, ISA VP

2:00 pm — 5:00 pm

Meet in Blackwell Lobby at 2pm; or meet at either brewery The "plan"

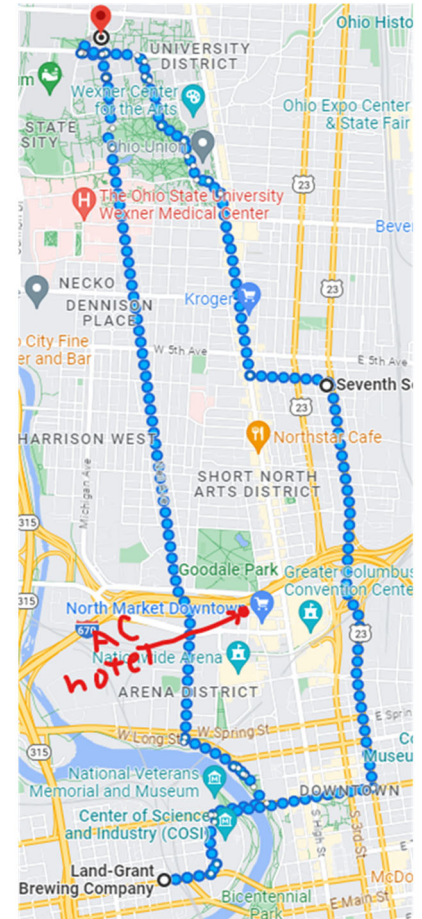
- Uber selves to Land Grant Brewing, 424 W. Town Street, Columbus, Ohio, 43215 | <https://landgrantbrewing.com/> Land Grant has "Ray Ray's" food truck; ribs and other meat. (note: If raining or brutally hot, Brewdog across the street has more indoor space: <https://www.brewdog.com/usa/bars/usa/brewdog-franklinton>) Brewdog also has a full menu

We will stay there until ~3:30

- Uber selves to Seventh Son Brewing, 1101 N. 4th St., Columbus, Ohio, 43201 | <https://www.seventhsonbrewing.com/homepage> Seventh Son has burger food truck 12-4, Pizza food truck from 5-10pm

**At 5pm the "John Gray No-Host Tour will end"

- A great place for dinner is right across the street, a food hall with games and a rooftop. It has several good restaurants in the food hall, in an old Dairy Processing plant: Budd Dairy <https://buddairyfoodhall.com/>
- Or, [see page 30](#) for restaurant recommendations, mostly in the Short North



Staying the weekend?

It's a relatively quiet weekend, but many entertainment options, including:

- The PGA Tour is in Dublin, Oh, a Columbus suburb; The Memorial; Jack Nicklaus' tournament: <https://www.thememorialtournament.com/the-memorial/about-the-memorial/>
- Dublin's Bridge Park is a vibrant suburban riverfront area
- See the rock band Barenaked Ladies in outdoor venue where they kickoff their Last Summer on Earth Tour: <https://www.barenakedladies.com/splash/>
- Stroll the Short North neighborhood Saturday morning during their annual yard sale: <https://shortnorthcivic.org/yard-sale/>
- Word-class zoo (Jack Hanna's zoo) <https://www.columbuszoo.org/>
- World-class science center, featuring King Tut exhibit now <https://cosi.org/>



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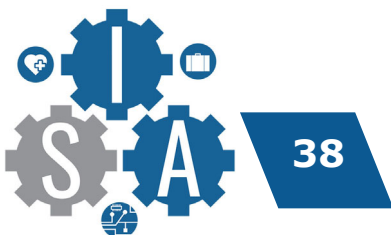
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