

Research Universities, International STEM Students,
and the Innovation Economy:
San Diego, California and Beyond



May 2, 2016

The Village, Meeting Rooms on 15 (15-A)

University of California, San Diego

8:30 am - 5:45pm

*Workshop sponsored by the Center for Comparative Immigration Studies and
the Scholars Strategy Network*



*Research Universities, International STEM Students, and the Innovation Economy:
San Diego, California and Beyond*

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University of California, San Diego
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Workshop Agenda

- 8:30am-8:45am** **WELCOME and BREAKFAST**
- 8:45am-9:00am** **OPENING REMARKS**
John Skrentny, Co-Director, Center for Comparative Immigration
Studies and Professor of Sociology, UC San Diego
- 9:00am-10:45am** **PANEL I: THE ROLE OF INTERNATIONAL STEM STUDENTS/WORKERS
IN REGIONAL ECONOMIES**
1. **Nikia Clarke**, Director, San Diego World Trade Center
 2. **Michael Combs**, Research Manager, CBRE and San Diego Economic
Development Corporation
 3. **Mary Walshok**, Dean of Extension and Associate Vice Chancellor for
Public Programs, UC San Diego
 4. **Phil Blair**, Executive Officer, Manpower San Diego
- 11:00am-12:45pm** **PANEL II: THE PREFERENCES AND ABILITIES OF INTERNATIONAL
STEM STUDENTS/WORKERS**
1. **Neil Ruiz**, Executive Director of the Center for Law, Economics, and
Finance at the George Washington University Law School
 2. **Jason Owen-Smith**, Professor of Sociology and Director, Institute
for Research on Innovation and Science, University of Michigan
 3. **Michael Roach**, J. Thomas and Nancy W. Clark Assistant Professor
of Entrepreneurship, Dyson School of Applied Economics and Man-
agement, Cornell University
 4. **Miroslav Krstic**, Associate Vice Chancellor for Research, Distin-
guished Professor of Mechanical and Aerospace Engineering, UC
San Diego
- 12:45pm-2:00pm** **LUNCH**

STEM Workshop Agenda, Pg. 2

2:00pm-3:45pm

PANEL III: WHY ARE INTERNATIONAL STEM STUDENTS SO IMPORTANT TO RESEARCH UNIVERSITIES?

1. **Kim Barrett**, Dean of the Graduate Division and Distinguished Professor of Medicine, UC San Diego
2. **John Aubrey Douglass**, Senior Research Fellow, Center for Studies in Higher Education, UC Berkeley
3. **Paula Stephan**, Professor of Economics, Andrew Young School of Policy Studies, Georgia State University
4. **Michael Teitelbaum**, Senior Research Associate, Labor and Worklife Program, Harvard Law School

4:00pm-5:45pm

PANEL IV: THE POLITICS OF INTERNATIONAL STEM STUDENT/WORKER MIGRATION

1. **Scott Blinder**, Assistant Professor of Political Science, UMass-Amherst University
2. **Rob McNeil**, Head of Media and Communications, Migration Observatory, University of Oxford
3. **Michael Teitelbaum**, Senior Research Associate, Labor and Worklife Program, Harvard Law School
4. **Daniel Zawitoski**, Legislative Director, Office of Congressman Scott Peters

Speakers



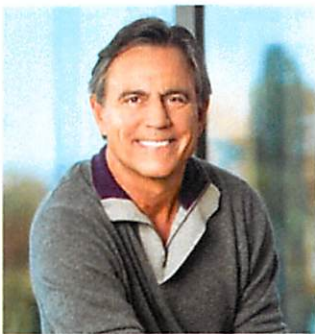
John Aubrey Douglass, Senior Research Fellow - Center for Studies in Higher Education, UC Berkeley

Much of John's research is focused on the interplay of globalization and higher education, the role of universities in economic development, and the history and development of California's pioneering higher education system. Douglass is the Author of *The New Flagship University: Changing the Paradigm from Global Ranking to National Relevancy* (Palgrave Macmillan, 2016), Among the research projects he founded and leads is the Student Experience in the Research University (SERU) Consortium – a group of major research universities in the US (including the University of California and 15 AAU institutions), China, Japan, Russia, Brazil, the UK, Europe and South Africa.



Kim Barrett, Dean of the Graduate Division and Distinguished Professor of Medicine - UC San Diego

A native of the United Kingdom, Barrett obtained her B.Sc. and Ph.D. degrees from the Department of Chemistry at University College London. Following a post-doctoral fellowship at the National Institutes of Health, she joined the faculty of UCSD School of Medicine in 1985, and rose to her current rank of Distinguished Professor of Medicine in 2015. In 2006, she was additionally appointed as Dean of Graduate Studies at UCSD. In this capacity, she serves as a member of the senior academic management team of the institution and oversees the recruitment, academic advancement and climate for more than 5000 masters and doctoral students, including a rapidly growing cohort of international students.



Phil Blair, Executive Officer - Manpower of San Diego

Blair is one of San Diego's most respected business leaders. He has helped build Manpower-West into the largest Manpower franchise in the U.S. with annual revenues exceeding \$125 million. Manpower's training programs, under the name WorkPath, range from work readiness training for community organizations to veterans programs, preparing them to enter the civilian workplace. He is a professional speaker on employment, workforce trends and multigenerational employment issues, as well as being a career coach. Phil's acclaimed book, *Job Won!*, has proven to be a helpful tool for people entering or struggling in today's workplace. Blair is an active member of the San Diego Community and currently serves on the board of directors of: San Diego Regional Chamber of Commerce (past Chair); the San Diego Convention Center (past Chair); Downtown San Diego Partnership Executive Committee; LEAD San Diego (past Chair); the Economic Development Corporation (Executive Committee Member); National Association of Workforce Boards, and he also teaches "In the CEO's Chair" at the University of San Diego.



Scott Blinder, Assistant Professor - UMass-Amherst University

Scott Blinder is an Assistant Professor of Political Science at the University of Massachusetts, Amherst. He was previously the director of the Migration Observatory at the University of Oxford. Blinder has expertise in political psychology, media discourse and text analysis, and quantitative analysis of survey data, and has authored articles in leading journals in political science and migration studies, including the *International Migration Review* and *American Journal of Political Science*.



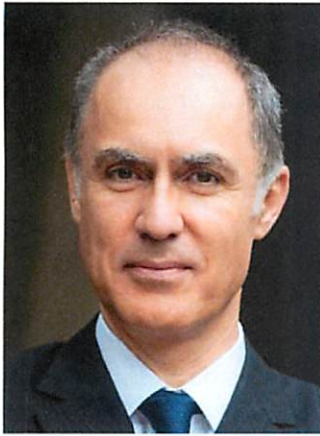
Nikia Clarke, Director - San Diego World Trade Center

Dr. Nikia Clarke is founder and former Director of the Oxford University China Africa Network (OUCAN), an international organization that brings together senior policy makers, industry leaders, and researchers to identify and analyze emerging global investment and development trends. She holds a PhD in International Relations from the University of Oxford, an MPhil in Development Economics from the University of Cambridge, and a BA from Loyola Marymount University, Los Angeles. Her doctoral research focused on FDI attraction and retention in emerging markets, with an emphasis on large-scale public-private partnerships. Dr. Clarke spent several years working in both the private and public sectors in the US, the UK, China, and South Africa. She provides regular analysis on trade and investment policy for a number of international consultancies and trade publications.



Michael Combs, Research Manager - CBRE and San Diego Economic Development Corporation

Michael Combs is an experienced market research specialist with a focus on regional markets. His research has primarily revolved around labor markets, capital investment, commercial real estate and trade. Mike is currently the Research Manager at CBRE San Diego, with the continued goal of providing premier market insights to clients, brokers, business leaders and the public. He is the former Research Manager at San Diego Regional EDC—a non-profit economic development organization based in San Diego.



Mirsolav Krstic, Associate Vice Chancellor for Research, Distinguished Professor of Mechanical and Aerospace Engineering - UC San Diego

Miroslav Krstic holds the Alspach endowed chair and serves as Associate Vice Chancellor for Research and as founding director of the Cymer Center for Control Systems and Dynamics at UC San Diego. Krstic is Fellow of IEEE, IFAC, ASME, SIAM, and IET (UK), Associate Fellow of AIAA, and his national recognitions in other countries include the election as foreign member of the Academy of Engineering of his native Serbia, appointment as Distinguished Visiting Fellow by the Royal Academy of Engineering, Invitation Fellow by the Japan Society for the Promotion of Science, and Honorary Professor awards from the Northeastern University (Shenyang), the Chongqing University, and Donghua University, China. Krstic has coauthored eleven books and 250 journal papers on adaptive, nonlinear, and stochastic control, extremum seeking, control of PDE systems including turbulent flows, and control of delay systems, and his control algorithms are implemented on the Mars Rover and on the semiconductor manufacturing facilities at Intel, IBM, and Samsung, making electronic chips with the world's smallest feature sizes.



Rob McNeil, Head of Media and Communications - Migration Observatory, University of Oxford

McNeil is based at Oxford University's Migration Observatory where he works to inform UK public debates on migration through engagement with the media, and to examine how media debates affect migration policy making. Rob is a communications strategy specialist and a former newspaper journalist. As a reporter he worked at the *London Evening Standard*, *the Daily Mirror*, *Sunday Mirror*, and numerous other magazines and newspapers. Since 2004 he has worked as a media expert and communications strategy consultant for a number of academic and non-governmental organizations and lectures internationally about media coverage of migration.



Jason Owen-Smith, Professor of Sociology and Director - Institute for Research on Innovation & Science, University of Michigan

Jason Owen-Smith is the Executive Director of the Institute for Research on Innovation & Science (IRIS) as well as the Barger Leadership Institute Professor of Sociology and Research Professor in the Institute for Social Research at the University of Michigan. Together with collaborators, Jason works on projects that examine the dynamics of high-technology industries, the public value of the research university, and the network organization of surgical care.



Michael Roach, J. Thomas and Nancy W. Clark Assistant Professor of Entrepreneurship - Dyson School of Applied Economics and Management, Cornell University

Michael Roach is Assistant Professor of Entrepreneurship at the Dyson School of Applied Economics and Management at Cornell University. His research examines the early careers of science and engineering doctorates, with a particular emphasis on careers in entrepreneurship and the founding teams of university-based start-ups. He also investigates the role of industrial scientists in firm innovation, firms' use of university research in industrial R&D, and firm patenting activities with implications for science and innovation policy.



Neil Ruiz, Executive Director - Center for Law, Economics, and Finance, George Washington University Law School

Dr. Neil Ruiz is the Executive Director of the Center for Law, Economics, and Finance at The George Washington University Law School. He has spent the past decade as a think tank scholar at The Brookings Institution, a migration specialist at The World Bank, and a consultant for the Asian Development Bank, all working on the nexus of migration and economic development issues. He holds a Ph.D. in political economy from MIT, an MSc in Economic History from Oxford University, and a BA in political science with high honors and Phi Beta Kappa from the University of California, Berkeley.



John Skrentny, Co-Director, Center for Comparative Immigration Studies and Professor of Sociology - UC San Diego

John Skrentny is Co-Director of the Center for Comparative Immigration Studies and Professor of Sociology at the University of California-San Diego. A former Guggenheim Fellow, Skrentny has long studied issues related to opportunity, employment and education. He is the author of three books and the editor of another on these topics, and his writings have appeared in a variety of academic journals from the fields of sociology, political science and law. With Kevin Lewis, he is currently working on a book tentatively entitled *Will STEM Workers Save Us?* His popular writings have appeared in a variety of outlets including the *New York Times* and *Time* magazine.



Paula Stephan, Professor of Economics - Andrew Young School of Policy Studies, Georgia State University

Paula Stephan is Professor of Economics in the Andrew Young School of Policy Studies, Georgia State University and a Research Associate at the National Bureau of Economic Research. Her research focuses on the economics of science, including the role that the foreign-born play in university science. She is the author of *How Economics Shapes Science*, Harvard University Press 2012.



Michael S. Teitelbaum, Senior Research Associate - Labor and Worklife Program, Harvard Law School

Teitelbaum is Senior Research Associate in the Labor and Worklife Program at Harvard Law School. Previously he was Vice President of the Alfred P. Sloan Foundation, a faculty member at Princeton University and Oxford University, and Vice Chair of the U.S. Commission on Immigration Reform. His recent research has focused on international migration, the spread of low fertility and its implications, and science and engineering labor markets. He is author or editor of 10 books and numerous articles on these subjects, most recently *Falling Behind? Boom, Bust and the Global Race for Scientific Talent* (Princeton University Press, 2014). He was educated at Reed College and at Oxford University, where he was a Rhodes Scholar. In 2013 *Science Careers Magazine* named him as its Person of the Year for “dedicated, imaginative, and surpassingly effective work on behalf of early-career scientists.”



Mary Walshok, Dean of Extension and Associate Vice Chancellor for Public Programs - UC San Diego

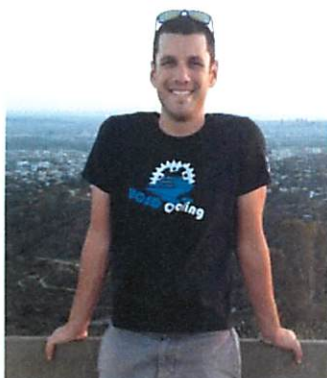
Walshok is Associate Vice Chancellor for Public Programs and Dean of Extension at the University of California San Diego, and the author of more than 100 articles and reports on the innovation economy and aligning workforce development with regional economic growth. She has authored and co-authored *Blue Collar Women (1981)*, *Knowledge Without Boundaries (1995)*, *Closing America's Job Gap (2011)*, *Creating Competitiveness: Entrepreneurship and Innovation Policies for Growth (2013)* and *Invention and Reinvention: The Evolution of San Diego's Innovation Economy (2013)*, *Public Universities and Regional Growth: Insights from the University of California (2014)* and the *Oxford Handbook of Local Competitiveness (2015)*. Her particular focus is how globalization and rapid changes in technology are affecting the social dynamics and economic challenges of regions across America.



Daniel Zawitoski, Legislative Director - Office of Congressman Scott Peters

A native of Maryland, Daniel attended Colby College where he received a Bachelor of Arts Degree in History. He moved to San Diego in 2010 to pursue a Masters' Degree in Political Science from San Diego State University. In his time in Washington, Daniel has handled a diverse issue portfolio for Congressman Peters, including immigration, patents, trade, small business, and Rep. Peters' work on the Judiciary Committee and Armed Services Committee.

Distinguished Guests



Drew Ceccato, Performance Media Developer - Posiba

Ceccato holds a B.M in saxophone performance from New England Conservatory of Music ('07) and a M.F.A in performance and literature with a specialization in improvisation from Mills College ('11). Currently, he lives in San Diego, CA where he is pursuing a Ph.D. in music and systems inquiry at the University of California, San Diego where his research centers around human experience and the interactivity of performative media. In addition, Ceccato works at a San Diego startup called Posiba where he is a user experience designer, product developer, and researcher creating and implementing data-centric interactive ecosystems that are used to increase the impact of philanthropic organizations and institutions.



Melanie B. Cruz, Executive Director of Development - UC San Diego

Melanie B. Cruz is the Executive Director of Development for the Divisions of Biological and Physical Sciences at the University of California, San Diego (UC San Diego) and a member of the Divisional Dean's leadership teams. At UC San Diego, she is responsible for the local, national, and global comprehensive fundraising activities for the Biological and Physical Sciences which include: the Departments of Chemistry and Biochemistry; Mathematics; Physics; Biological Sciences; the Science and Math Initiative; and the Environmental Systems program. Ms. Cruz has served in three separate billion dollar public university fundraising campaigns. Ms. Cruz holds a B.A. in Political Science and Geography from the University of Kentucky. She earned a M.A. in Higher Education and Student Affairs from The Ohio State University. Her research interests include aspects of citizenship, immigration and STEM education.

Distinguished Guests



Natalie Novick, Graduate Student Researcher - UC San Diego

Novick is a Sociology PhD student at the University of California, San Diego and a graduate student researcher at the Center for Comparative Immigration Studies. Her research examines how globalization and technology change the landscape of skilled labor migration. Her work explores how startup entrepreneurs and technical workers choose where to locate, and how the attractiveness of startup ecosystems changes over time.



Paul Roben, Associate Vice Chancellor for Innovation & Commercialization - UC San Diego

Previously the Senior Director of Office Technology Development at the Salk Institute in La Jolla, Roben now works on patenting, strategic corporate research partnering and industry contracts at UC-San Diego. He is also a key member of Ireland's Innovation Taskforce (2009 to present), where he co-authored a national economic-development plan for Ireland, among other achievements. Roben earned a Bachelor of Science degree in Biotechnology, as well as his Ph.D., at Dublin City University in Ireland, and studied as a Postdoctoral Fellow with Dr. Greg Silverman at UC San Diego.

*Thank you on behalf of the Center for Comparative Immigration Studies
and the Scholars Strategy Network*