

# 2018 International Research Conference

*at the University of California, Davis*

**Innovation within  
Changing Political and  
Research Environments**





## Welcome to the 2018 International Research Conference at UC Davis

As the world changes rapidly and human challenges become increasingly interlinked across borders and disciplines, researchers and scholars play a critical role in forging new models of collaboration and discovery to improve lives around the globe.



This is why the 2018 International Research Conference at UC Davis is focused on four themes that are re-shaping the future of international research: the changing political environment, the increasing importance of networks and consortia, the role of interdisciplinary or transdisciplinary research, and the responsibilities we have to educate the next generation of researchers.

We hope this conference provides a unique forum for colleagues from universities, governments, international organizations, and industry to share models for leading innovation in these changing political and research environments. We invite you to network with one another, challenge convention, stretch your limitations and be inspired.

It is our pleasure to welcome you to UC Davis to have these important discussions.

Sincerely,

**Ermias Kebreab**

2018 International Research Conference Chair  
Associate Vice Provost of Academic Programs in Global Affairs  
Professor and Sesnon Endowed Chair in Sustainable Agriculture  
University of California, Davis

**Joanna Regulska**

Vice Provost and Associate Chancellor of Global Affairs  
Professor of Gender, Sexuality and Women's Studies  
University of California, Davis

# September 17

## MORNING SESSION

### UC DAVIS CONFERENCE CENTER, BALLROOM

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7:15 – 7:45 AM

**Optional UC Davis Campus Tour**

8:00 – 9:00 AM

**Breakfast/Check-In**

9:00 – 9:10 AM

**Conference Welcome**

Ermias Kebreab, *Associate Vice Provost of Academic Programs, Global Affairs, UC Davis (USA)*

Prasant Mohapatra, *Vice Chancellor for Research, UC Davis (USA)*

Ralph J. Hexter, *Provost and Executive Vice Chancellor, UC Davis (USA)*

9:10 – 9:30 AM

**Introductory Keynote Remarks**

John Garamendi

*Congressman, 3rd District, California (USA)*

9:30 – 10:45 AM

**GLOBAL REALITIES: HOW EMERGING NATIONAL AND INTERNATIONAL PRIORITIES ARE RE-SHAPING THE RESEARCH LANDSCAPE**

This session will explore how major shifts in national, regional, and international policies and needs are changing the way academic research is conceptualized and carried out – and the impact that it can have.

**CHAIR:** Meredith McQuaid, *Associate Vice President and Dean of International Programs, University of Minnesota (USA)*

**Research Needs in Achieving the Sustainable Development Goals**

John McArthur, *Senior Fellow in the Global Economy and Development program at the Brookings Institution; Senior Adviser to the UN Foundation (Canada)*

**Changing Realities and Opportunities for Research in the Commonwealth**

Ian Rowlands, *Associate Vice-President, International at the University of Waterloo (Canada)*

**China's Belt and Road Initiative and Connecting Researchers Across Continents**

Tianzhi Ren, *Professor, Agro-Environmental Protection Institute (AEPI) of Ministry of Agriculture, Chinese Academy of Agricultural Sciences (CAAS) (China)*

**Q&A**

### UC DAVIS CONFERENCE CENTER, LOBBY AND PATIO

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10:45 – 11:00 AM

**Coffee/Networking Break**

### UC DAVIS CONFERENCE CENTER, BALLROOM

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11:00 AM – 12:15 PM

**BEYOND BORDERS: LEVERAGING COLLABORATIVE NETWORKS FOR GLOBAL PROGRESS**

This session will highlight the lessons learned in developing regional networks for innovative research, including common challenges and model practices.

**CHAIR:** Mellissa Withers, *Associate Professor of Clinical Preventive Medicine, University of Southern California (USA)*

**Sharing Knowledge and Innovation across the Asia-Pacific Region**

Christopher Tremewan, *Secretary General, Association of Pacific Rim Universities (APRU) (Hong Kong)*

**Researchers and Students Across Borders: CaliBaja Education Consortium**

Olivia Graeve, *Professor of Mechanical & Aerospace Engineering, UC San Diego (USA)*

**Promoting Sustainable Development and Next Generation Leadership through a Pan-African Network**

Nelson Torto, *Executive Director, African Academy of Sciences (Botswana)*

**Challenges of Young Private Universities in South America in Establishing Research Networks and Training Students**

Ariel Orellana López, *Vice Chancellor, Life Sciences School, Universidad Andrés Bello (Chile)*

**Q&A**

## UC DAVIS CONFERENCE CENTER, BALLROOM

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12:15 – 1:45 PM

### KEYNOTE LUNCHEON

#### Sexual Harassment of Women: Climate, Culture, and Consequences in Academic Sciences, Engineering, and Medicine

Elizabeth Hillman, *President of Mills College (USA)*

1:45 – 2:00 PM

Walk to Breakout Session Rooms

## AFTERNOON SESSION

2:00 – 3:15 PM

### *Bridging Disciplines for New Regional Approaches*

## UC DAVIS CONFERENCE CENTER

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### SESSION 1: REGIONAL RESEARCH TRENDS IN AFRICA AND ASIA

This session will explore how research across disciplines intersects with social transformation and sustainable development in the African and Asian contexts.

**CHAIR:** Rick Garfunkel, *Vice President for Global and International Affairs, Rutgers, The State University of New Jersey (USA)*

#### Engaging African Universities in International Development Research and Policy

Anthony Egeru, *Program Manager, Training and Community Development, Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) (Uganda)*

#### The Research Landscape in Africa: Implications for Development and Governance

Ousseina Alidou, *Professor, Department of African, Middle Eastern and South Asian Languages and Literatures and the Graduate Program in Comparative Literature, Rutgers, The State University of New Jersey (USA/Niger)*

### Research Trends and Sustainable Development Goals in India

Raju Ananth, *Professor, Department of Aerospace Engineering, Amrita Vishwa Vidyapeetham (India)*

### Q&A

## JAN SHREM AND MARIA MANETTI SHREM MUSEUM OF ART, COMMUNITY EDUCATION ROOM

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### SESSION 2: REGIONAL RESEARCH TRENDS IN LATIN AMERICA

This session will explore efforts to connect researchers across disciplines and expand knowledge production in the Latin American region.

**CHAIR:** Guillermo Hernández-Duque Delgado, *General Director, Strategic Partnerships, National Association of Universities and Higher Education Institutions (ANUIES) (Mexico)*

#### Strengthening Human Capital and Development in Chile through Innovation

Christian Nicolai Orellana, *Executive Director of National Commission for Science and Technological Research (CONICYT) (Chile)*

#### Brazil's Investment in International Cooperation and Research Capabilities

Connie McManus, *Director of International Relations, Coordination for the Improvement of Higher Education Personnel (CAPES) (Brazil)*

#### Science and Technology Research Trends in Mexico

José Luis Morán-Lopez, *President, Mexico Academy of Sciences (Mexico)*

### Q&A

3:15 – 3:45 PM

Walk to Plenary/Coffee Break

## UC DAVIS CONFERENCE CENTER, LOBBY

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### Graduate Student Poster Session

See page 7 for a full list of graduate student presenters



# September 18

## UC DAVIS CONFERENCE CENTER, BALLROOM

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3:45 – 5:00 PM

### WHERE'S THE IMPACT? ASSESSING THE SIGNIFICANCE OF INTERDISCIPLINARY AND TRANSDISCIPLINARY RESEARCH

This session will discuss approaches and indicators that can be used to evaluate the impact of international collaborative research.

**CHAIR:** Katherine Belov, *Professor of Comparative Genomics and Pro Vice-Chancellor of Global Engagement, University of Sydney (Australia)*

#### How to Measure Internationalized Research

Adel El Zaïm, *Chief Internationalisation Officer, University of Ottawa (Canada)*

#### Using Publication Data to Help Universities Improve Research Reach

Brad Fenwick, *Senior Vice President, Global Strategic Alliance, Elsevier (USA)*

#### Technology and Digital Knowledge Management to Support Research Excellence

MacKenzie Smith, *University Librarian and Vice Provost of Digital Scholarship, UC Davis (USA)*

#### Incorporating Social Impact into Academic Research

J. Britt Holbrook, *Assistant Professor, Department of Humanities, New Jersey Institute of Technology (USA)*

#### Q&A

5:00 – 5:15 PM

#### Day 1 Wrap-Up/Preview Day 2/Announcements

Joanna Regulska, *Vice Provost and Associate Chancellor, Global Affairs, UC Davis (USA)*

5:15 – 7:00 PM

#### Dinner Reception at the Robert Mondavi Institute for Wine and Food Science, Good Life Garden

Joanna Regulska, *Vice Provost and Associate Chancellor, Global Affairs, UC Davis (USA)*

Kenneth Burtis, *Faculty Advisor to the Chancellor and Provost, UC Davis (USA)*

## MORNING SESSION

### UC DAVIS CONFERENCE CENTER, LOBBY

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7:15 – 7:45 AM

#### Optional UC Davis Campus Tour

8:00 – 9:00 AM

#### Breakfast and Graduate Student Poster Session

See page 7 for a full list of graduate student presenters

### UC DAVIS CONFERENCE CENTER, BALLROOM

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9:00 – 10:00 AM

#### GRADUATE PANEL I: INTERNATIONAL TRENDS IN GRADUATE EDUCATION

**CHAIR:** Jean-Pierre Delplanque, *Acting Vice Provost of Graduate Education and Dean of Graduate Studies, UC Davis (USA)*

#### Supporting Graduate Student Mobility and Research

Jenny Dixon, *Deputy Vice-Chancellor of Strategic Engagement, University of Auckland (New Zealand)*

#### New Trends in Graduate Education

Jose Celso Freire Junior, *Associate Vice Provost for International Affairs, State University of Sao Paulo (UNESP); President of the Brazilian Association for International Education (Brazil)*

#### The Future of Graduate Education Globally

Julia Kent, *Vice President for Best Practices and Strategic Initiatives, Council of Graduate Schools (USA)*

#### Q&A

10:00 – 11:00 AM

#### GRADUATE PANEL II: NEXT GENERATION LEADERSHIP IN INTERNATIONAL RESEARCH

**CHAIR:** Jenny Dixon, *Deputy Vice-Chancellor of Strategic Engagement, University of Auckland (New Zealand)*

#### Impact of International Experiences on Graduate Education

Brian Mitchell, *Interim Associate Dean for Graduate Studies, Research, and Facilities; Professor of Chemical and Biomolecular Engineering, Tulane University (USA)*

## Expanding Diversity and Inclusion for Graduate Student Research Opportunities

Sally Pratt, *Vice Provost for Graduate Programs, University of Southern California (USA)*

## Graduate Student Presenters

### Q&A

## UC DAVIS CONFERENCE CENTER, LOBBY

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11:00 – 11:15 AM

### Coffee/Networking Break

## UC DAVIS CONFERENCE CENTER, BALLROOM

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11:15 AM – 12:15 PM

## FROM CALIFORNIA TO THE WORLD: INNOVATIONS IN RESEARCH AT THE UNIVERSITY OF CALIFORNIA

This “TED-style” talk will highlight ground-breaking work from University of California system faculty that is having a transformative impact.

**CHAIR:** Patricia Conrad, *Associate Dean for Global Programs; Professor of Parasitology, School of Veterinary Medicine, UC Davis (USA)*

## Participatory Research to Address Sustainable Development Challenges

Kate Scow, *Professor of Soil Science and Microbial Ecology; Director of the Russell Ranch Sustainable Agriculture Facility, UC Davis (USA)*

## How Can We Stop Africa's Scientific Brain Drain

Kevin Njabo, *Africa Director and Assistant Adjunct Professor, Center for Tropical Research, UCLA (Cameroon/USA)*

## Addressing the Refugee Health Care Crisis through Research and Practice

Fatima Karaki, *Assistant Professor; Founder and Director of the Refugee and Asylum seeker Health Initiative (RAHI), UC San Francisco (USA)*

## The Future of Learning and Thinking in the Digital Age

David T. Goldberg, *Professor, Comparative Literature, School of Humanities; Director, UC Humanities Research Institute, UC Irvine (USA)*

### Q&A

12:15 – 1:45 PM

## Lunch with Consuls General from Northern California

Ralph J. Hexter, *Provost and Executive Vice Chancellor, UC Davis (USA)*

Featuring:

Ambassador Venkatesan Ashok, *Consul General of India in San Francisco*

Liliana Ferrer, *Consul General of Mexico in Sacramento*

Lorenzo Ortona, *Consul General of Italy in San Francisco*

Natalia Ariza-Ramirez, *Former Vice Minister of Education in Columbia (Columbia)*

Sabine Blankenship, Ph.D., *Science Liaison Officer, German, Consulate General of Germany in San Francisco*

1:45 – 2:00 PM

## Walk to Breakout Session Rooms

## AFTERNOON SESSION

2:00 – 3:15 PM

## Connecting Transdisciplinary Research to Multiple Stakeholders

## UC DAVIS CONFERENCE CENTER

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## SESSION 1: ACADEMIC-INDUSTRY PARTNERSHIPS ON NEW RESEARCH FRONTIERS

This session will explore how academia is partnering with industry to develop breakthroughs for pressing global problems.

**CHAIR:** Paul Dodd, *Associate Vice Chancellor for Interdisciplinary Research and Strategic Initiatives, UC Davis (USA)*

## Tackling Big Science Challenges with Research Innovation

Michael Battaglia, *Research Director, Agriculture and Social Change, Commonwealth Scientific and Industrial Research Organisation (CSIRO) (Australia)*

## Entrepreneurship and Innovation:

### Sharing Knowledge between Academia and Industry

Rosa Grimaldi, *Professor of Entrepreneurship and Innovation Management; Deputy Rector for Entrepreneurship, University of Bologna (Italy)*

### **Driving Industry Engagement and Partnerships with Universities: Perspectives from the South Asia/ASEAN Region**

Lily Chan, *Chief Executive Officer, NUS Enterprise, National University of Singapore (Singapore)*

### **From Campus to Market: Delivering Impact Through Academic-Industry Research Partnerships**

Paul Townsend, *Director, Irish Photonic Innovation Center (IPIC), Tyndall National Institute (Ireland)*

#### **Q&A**

### **JAN SHREM AND MARIA MANETTI SHREM MUSEUM OF ART, COMMUNITY EDUCATION ROOM**

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### **SESSION 2: APPLYING CRITICAL RESEARCH FOR GLOBAL CHALLENGES**

This session will explore the perspectives of other stakeholders, including funders and government agencies, on the research landscape and the current and emerging global challenges that require sustained research efforts.

**CHAIR:** Montague W. Demment (Tag), *Vice President for International Programs, Association of Public and Land Grant Universities (APLU) (USA)*

#### **Research Support for Policy and Practice Change**

Gabriele Bammer, *Professor, National Centre for Epidemiology and Population Health, Research School of Population Health, Australian National University (ANU) (Australia)*

#### **Highly Integrative Basic and Responsive (HIBAR) Research and International Engagement**

Lorne Whitehead, *Professor, Physics and Astronomy, University of British Columbia (Canada)*

#### **Engaging Globally on Common Agricultural Challenges**

Otto Gonzalez, *Director of the Center for International Programs, National Institute of Food and Agriculture, United States Department of Agriculture (USA)*

#### **The Role of Federally Supported Research in Supporting Critical Research**

Jessica Robin, *Countries and Regions Cluster Lead, Office of International Science and Engineering, National Science Foundation (USA)*

#### **Q&A**

### **UC DAVIS CONFERENCE CENTER, LOBBY**

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**3:15 – 3:30 PM**

#### **Walk to Plenary/Coffee/Networking Break**

### **UC DAVIS CONFERENCE CENTER, BALLROOM**

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**3:30 – 4:45 PM**

### **LEADERSHIP ROUNDTABLE: HIGHER EDUCATION STRATEGIES FOR RESEARCH IN AN UNCERTAIN WORLD**

This session will highlight the ways in which political, economic, and social shifts at the national, regional and global levels are necessitating new approaches to international research and partnerships for higher education institutions.

**CHAIR:** Roger Brindley, *System Vice President, USF World, University of South Florida (USF) (USA)*

#### **Developing Sustainable Global Research Partnerships: Opportunities and Challenges**

Dolores O’Riordan, *Vice-President for Global Engagement, University College Dublin (Ireland)*

#### **Connecting Research to Citizen Concerns**

Meredith McQuaid, *Associate Vice President and Dean of International Programs, University of Minnesota (USA)*

#### **Global Engagement and Empowerment for Sustainable Development**

Shinki An, *Director, Institute for Global Engagement and Empowerment, Yonsei University (South Korea)*

#### **Q&A**

**4:45 – 5:00 PM**

#### **Concluding Remarks**

Joanna Regulska, *Vice Provost and Associate Chancellor, Global Affairs, UC Davis (USA)*

### **JAN SHREM AND MARIA MANETTI SHREM MUSEUM OF ART**

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**5:00 – 7:00 PM**

#### **Reception**

Gary S. May, *Chancellor, UC Davis (USA)*



## 2018 International Research Conference at UC Davis Graduate Student Poster Presentations

### **ALYSSA DEVINCENTIS**

**UC Davis (USA)**

*Exploring Climate Smart Agriculture as a Form of Community Development in Ecuador*

Region of International Research: **Latin America**

### **STEPHANIE EYOCKO**

**Johns Hopkins University (USA)**

*Indonesia: The Interaction between China National Petroleum Corporation (CNPC) Investment and the Local Civil Society*

Region of International Research: **Asia**

### **LIBERTY GALVIN**

**Njala University (Sierra Leone)**

*Evaluating Options for Knowledge Transfer between Njala University Extension Services and Local Stakeholders in Sierra Leone*

Region of International Research: **Africa**

### **EMILY MERCHANT**

**Rutgers, The State University of New Jersey (USA)**

*Train-the-Trainer: Urban Agricultural Method to Increase Access and Consumption of African Indigenous Vegetable*

Region of International Research: **Africa**

### **AMANDA PINHEIRO DE OLIVEIRA**

**UC Santa Barbara (USA)**

*How to tell them it was actually a political construct?: Transdisciplinary Subjectivity to Mediate Researchers Multiple Positionality Conflict*

Region of International Research: **Caribbean**

### **CHRIS Y. H. TSUI**

**The Hong Kong Polytechnic University (Hong Kong)**

*Judging the Online Judges: The Two #MeToo Cases in Hong Kong*

Region of International Research: **Asia**

# Speaker Biographies



## **OUSSENIA ALIDOU, Ph.D.**

*Professor, Department of African, Middle Eastern and South Asian Languages and Literatures, Rutgers, The State University of New Jersey (Niger/USA)*

Ousseina D. Alidou is professor in the Department of African, Middle Eastern and South Asian Languages and Literatures, and Comparative Literature at Rutgers. She directed the Center for African Studies at Rutgers from 2009 to 2015.

Alidou is a theoretical linguist whose research focuses on women's agency in African Muslim societies; gendered discourses of citizenship and rights; gender, education, politics and leadership. She is the author of "Muslim Women in Postcolonial Kenya: Leadership, Representation, Political and Social Change" and "Engaging Modernity: Muslim Women and the Politics of Agency in Postcolonial Niger," which was a runner-up for the Aidoo-Snyder Book Prize of Women's Caucus of the Association of African Studies. Her forthcoming (2019) book is "Gender, Islam, Popular Culture and Social Change in the Sahel".

She has co-edited numerous books including "Writing through the Visual and Virtual," "Postconflict Reconstruction in Africa" and "A Thousand Flowers: Social Struggles Against Structural Adjustment in African Universities." In addition, she has published over 50 book chapters and articles.

Alidou is the recipient of several national and international scholarly and service awards including: Obafemi Awolowo Center for Gender and Social Policy Studies Distinguished Visiting Scholar Service Award (2015), Carnegie African Diaspora Fellowship Award (2015), Newark Women-in-the Media Distinguished Community Service Award (2015), Rutgers 2011 Warren I. Susman Award for Excellence in Teaching, Africa America Institute's Distinguished Alumni Award (2010), Ford Foundation Human Rights and Social Justice Grant Award (2005), Rutgers Board of Trustee's Scholarly Excellence Award (2005).

Alidou received a master's degree in linguistics from the Universite Abdou Moumouni in Niger, and a master's degree in applied linguistics and a Ph.D. in theoretical linguistics, both from Indiana University.



## **SHINKI AN, M.D.**

*Director, Institute for Global Engagement and Empowerment, Yonsei University (South Korea)*

Shinki An is the director of the Ban Ki-moon Center for sustainable development of the Institute for Global Engagement and Empowerment at Yonsei.

An was trained in internal medicine after graduating from Yonsei University College of Medicine. When he completed his cardiology fellow training at the Severance Cardiovascular Hospital, he became a member of the faculty at the department of Internal Medicine in 1997. Working in the cardiology division, his area of expertise was arrhythmia.

An's career then took a fascinating turn when he worked as a medical missionary between 2002 to 2006 in Uzbekistan. During this stint, he served as the director of the All Nations Friendship Hospital, an NGO hospital in Tashkent. He also coordinated various programs focusing on health science and medical education in developing nations, notable of which was the exchange program between the Tashkent Pediatric Medical Institute and the Yonsei University College of Medicine.

A man of many passions, An then studied theology at the Gordon-Conwell Theological Seminary in Boston from 2006 to 2010. In 2010 he was invited to return to Korea to become the director of the Medical Mission Center at Yonsei University Health System. As part of the Medical Mission Center's goals to develop healthcare capacity via medical education, he coordinated educational programs in numerous countries— ranging from Mongolia to Kenya to Tanzania. As a research professor of the department of medical education of Yonsei University College of Medicine Department, he actively participates in the curriculum development and the reformation of medical education.



## **NATALIA ARIZA-RAMÍREZ**

*Former Vice Minister of Education in Colombia (Columbia)*

Natalia Ariza-Ramírez is an economist at the National University of Colombia and was a 2017-18 Humphrey International Fellow at the University of Minnesota's Humphrey School of Public Affairs.

Additionally, Ariza-Ramírez is leading the Center for Latin American Studies at the University of California, Berkeley. In this role, Ariza-Ramírez is working to achieve greater knowledge of the community colleges system of the U.S. and to inspire new ideas and research by bringing together academics, artists, decision-makers and entrepreneurs from Latin America, the United States and the rest of the world.

Ariza-Ramírez is an expert in the design, execution, monitoring and evaluation of public policies, especially in the education sector, training for work and employment. She has led the construction of the regulatory and public policy framework of the sectors of work and education during the past 12 years.

Ariza-Ramírez also served as an independent consultant and as vice minister of higher education in Columbia from 2014 to 2016. She also has held management positions in public institutions in Colombia, including the National Apprenticeship Service, Ministry of Labor, Ministry of Social Protection and the National Planning Department. She believes that access to quality education for children and young people is the only way to achieve social cohesion.

She holds a master's degree in economics science from National University of Colombia with an emphasis on theory and economic policy.



## **VENKATESAN ASHOK**

*Consul General of India in San Francisco (USA)*

Venkatesan Ashok is consul general of India in San Francisco.

Ashok has held diplomatic assignments in Hong Kong, Malaysia, China, Austria and Sri Lanka, apart from postings in the Ministry of External Affairs in different capacities. He was director of external relations in the Department of Atomic Energy from 1995 to 1998. Following that position, he was appointed as India's alternate governor and alternate permanent representative in the International Atomic Energy Agency, Vienna.

He was the division chief of Central Europe in the Ministry of External Affairs prior to his assignment as ambassador of India to the Republic of Zimbabwe between March 2008 and June 2011. Ashok served as ambassador of India to the Czech Republic from August 2011 to September 2014. He was named consul general of India in San Francisco in November 2014.

Ashok speaks Chinese, English and several Indian languages. He has authored a book, "Dasavatara," apart from several technical articles.

He graduated in civil engineering from the Indian Institute of Technology, New Delhi and joined the Indian Foreign Service in 1982.



## **GABRIELE BAMMER, Ph.D.**

*Professor, National Centre for Epidemiology and Population Health, Australian National University (Australia)*

Gabriele Bammer is a professor in the Research School of Population Health at The Australian National University (ANU).

Her work is focused on developing the new discipline of integration and implementation sciences to improve research strengths for tackling complex real-world problems through synthesis of disciplinary and stakeholder knowledge, understanding and managing diverse unknowns and providing integrated research support for



policy and practice change. She looks at applications in population health, environment and security.

She is an ANU Public Policy Fellow, an inaugural Fulbright New Century Scholar alumna and has held visiting appointments at Harvard University's John F. Kennedy School of Government (2001-14) and the National Socio-Environmental Synthesis Center at the University of Maryland (2015-2018), along with short-term appointments at ETH-Zurich and the Universitaet fuer Bodenkultur in Vienna. She co-convenes (with Michael Smithson) an edX Massive Open Online Course (MOOC) on 'Ignorance!'.

Her books include "Disciplining Interdisciplinarity: Integration and Implementation Sciences for Researching Complex Real-World Problems," "Change! Combining analytic approaches with street wisdom," "Research Integration Using Dialogue Methods" and "Uncertainty and Risk: Multidisciplinary Perspectives."



**MICHAEL BATTAGLIA, Ph.D.**  
*Research Director, Agriculture and Social Change, Commonwealth Scientific and Industrial Research Organisation (CSIRO) (Australia)*

Michael Battaglia is the research director of agriculture and global change at CSIRO Agriculture and Food. In that role, Battaglia guides CSIRO's work in looking at the practice and science to adapt food systems to environmental climate, market and social change. Previously he formed and then led CSIRO's work on agriculture and greenhouse gas mitigation, which led to the first national assessment of the potential of the land sector to contribute to mitigation. His work also led the supporting government to design and implement its national greenhouse gas mitigation programs.

Battaglia, an adjunct professor at the University of Tasmania, has a background in forest systems science and has led forest science research capability numerous times for CSIRO and in various parts of New Zealand. He is leading an incubated company in CSIRO, FutureFeed, which seeks to commercialise anti-methanogenic seaweed, engaging with the Australian and U.S.

His work has been refereed in 79 first-class publications, 10 books or book chapters, 19 refereed conference publications and 51 industry reports. He has an H-index of 25.

Battaglia earned his bachelor's degree in forest science (first-class honours) from University of Melbourne and a doctoral degree from the University of Tasmania. Additionally, he has a certificate in executive management and development from the University of New South Wales' Australian Graduate School of Management.



**KATHERINE BELOV, Ph.D.**  
*Pro-Vice Chancellor of Global Engagement, Professor of Comparative Genomics, University of Sydney (Australia)*

Katherine "Kathy" Belov is a professor of comparative genomics in the School of Life and Environmental Sciences at the University of Sydney. Belov's research expertise is in the area of comparative genomics and immunogenetics of Australian wildlife, including Tasmanian devils and koalas, two iconic species that are threatened by disease processes. Belov's research team has participated in the opossum, platypus and wallaby genome projects where they have gained insights into genes involved in immunity and defense, including platypus venom genes and novel antimicrobial peptides in the pouch. Belov has published more than 130 peer-reviewed papers, including papers in *Nature*, *Proceedings of the National Academy of Science* and *PLoS Biology*. Belov has received two Eureka awards, the Crozier medal and the Fenner medal from the Australian Academy of Science for her research. She is currently the president of the Genetics Society of Australasia.

Belov also is the pro-vice chancellor of global engagement at the University of Sydney. In this role, she takes responsibility for managing the development and execution of the university's global engagement strategy. Key priorities are the development of the capacity of academic and professional staff to support international student learning and international research collaborations, and to achieve educational excellence in the international arena. She also promotes the university's position in the international academic and research community, and identifies and enables strategic opportunities for partnership and collaboration in research and education.



**ROGER BRINDLEY, ED.D.**

*Vice President, USF World, University of South Florida (USF) (USA)*

Roger Brindley is vice president of USF World where he oversees system-wide global engagement for the University of South Florida (USF). His responsibilities include leading USF World and the international student success initiatives for almost 5,000 students from 145 countries. Additionally, he oversees 2,250 faculty, staff and students completing academic experiences abroad and documents the global footprint of more than 1,200 USF faculty who conduct teaching, scholarship and research overseas.

Under his leadership, USF was a recipient of the Senator Paul Simon Award for Campus Internationalization, was recognized as a 2016 Peace Corps Top College for undergraduate volunteers and was ranked as the third graduate school for Peace Corps volunteers in the United States. Additionally, the Fulbright Commission announced USF as the number one producer of Fulbright Faculty Scholars across all universities in the United States in 2017.

A USF professor for 22 years, Brindley has received the Outstanding Undergraduate Teaching Award and the USF President’s Award for Faculty Excellence, and he was identified as an Honored Professor by the National Society of Collegiate Scholars in 2001. In addition to his duties as vice president of USF World, Brindley served as interim dean to the College of Education from 2016 to 2018.

Brindley has written numerous articles in North American and European publications on policy and practice in higher education, has served as editor for three national/international journals, and frequently speaks at international conferences around the world.

In 2014, Brindley was elected to the Association of Public and Land-Grant Universities (APLU) Commission on International Initiatives, and has spoken at national conferences of the APLU, the Association International Education Administrators, as well as the British Council Going Global conference. Between 2015-17, Brindley was elected the APLU executive chair for the Commission on International Initiatives.



**KENNETH BURTIS, Ph.D.**

*Faculty Advisor to the Chancellor and Provost, UC Davis (USA)*

Ken Burtis is faculty advisor to the chancellor and provost at UC Davis and a professor of genetics in the College of Biological Sciences.

In his role as faculty advisor, Burtis serves as a liaison with key campus constituencies and has a lead role in the strategic planning for campus growth, including enrollment management, facilities planning and academic resources.

Burtis was the first dean of the College of Biological Sciences. Prior to his appointment as dean, he served as chair of the Genetics Graduate Group, vice-chair of the Department of Molecular and Cellular Biology, associate director of the UC Davis Genome Center, and associate dean for Undergraduate Academic Programs in the College of Biological Sciences.

Burtis’ research interest focuses on DNA repair in *Drosophila*; specifically, the molecular basis of interstrand crosslink repair. He is a member of the Genetics Society of America.

Burtis earned his bachelor’s degree in biochemistry and biophysics from UC Davis, and his Ph.D. in biochemistry from Stanford University.



**LILY CHAN, Ph.D.**

*CEO, NUS Enterprise, National University of Singapore (Singapore)*

Lily Chan is the chief executive officer of NUS Enterprise at the National University of Singapore (NUS). In this role, Chan is responsible for architecting a comprehensive innovation and entrepreneurship ecosystem for the university, encompassing entrepreneurial education and venture development.

Under her stewardship, NUS Enterprise has become known for its NUS Overseas Colleges (NOC) program, which has placed more than 2,500 students in overseas start-up internships. NOC alumni have founded more than 350 companies, leading the Straits Times to cite the program



as “the single most important development to boost the start-up movement [in Singapore].”

Chan also has overseen the establishment of BLOCK71, an initiative that has helped aggregate Singapore’s start-up community and turned an old industrial building into what The Economist calls “the world’s most tightly packed entrepreneurial ecosystem.” As an ecosystem builder and global connector, BLOCK71 locations have since been set up in San Francisco (2015), Jakarta (2017) and Suzhou (2017), to bridge Southeast Asia’s entrepreneurial community with key overseas markets.

More recently, BLOCK71 has become the location for strategic accelerators focusing on key industries in Singapore, including: Innovation Cybersecurity Ecosystem at BLOCK71 with Singtel Innov8, focused on cybersecurity, and Port Innovation Ecosystem Reimagined @ BLOCK71 with MPA, aimed at the maritime and port industries.

Prior to joining NUS in 2006, Chan held positions as managing director of investments at Bio\*One Capital Pte Ltd, and general manager (Singapore) and director of product development (USA) for Genelabs Diagnostics Pte Ltd in Singapore.

Chan has held leadership positions in government, academia and industry for more than 25 years, ranging from initiating start-ups and venture investments, to active board involvement in many start-up companies. She currently sits on national-level committees on enterprise and innovation.



**PATRICIA CONRAD,  
D.V.M., Ph.D.**  
*Associate Dean for Global Programs;  
Professor of Parasitology, School of  
Veterinary Medicine, UC Davis (USA)*

Patricia Conrad is the associate dean for Global Programs at the UC Davis School of Veterinary Medicine, which is consistently ranked one of the top veterinary schools in the world. She also is co-director of the University of California’s system-wide UC Global Health Institute.

Conrad is a veterinarian and distinguished professor of parasitology. Her research is focused on the transmission of protozoal parasites between wildlife, humans and

domestic animals. She joined the faculty of the UC Davis School of Veterinary Medicine soon after she conducted post-doctoral research on the molecular epidemiology of tick-transmitted diseases at the International Laboratory for Research on Animal Diseases in Nairobi, Kenya.

Conrad has published more than 225 scientific papers and book chapters in the fields of emerging infectious diseases, parasitology, ecology of fecally-transmitted waterborne pathogens and one health. She is the recipient of the Carl J. Norden Distinguished Teaching Award, Pfizer Award for Research Excellence, the Oscar W. Schalm and Norman E. Levine Lectureships and an Aldo Leopold Leadership Fellowship. Conrad was elected to the National Academy of Medicine (formally IOM) in 2011, awarded a Fellowship in the American Academy of Microbiology in 2012 and selected as an American Association of the Advancement of Science Fellow in 2018. In 2017 she received the American Veterinary Medical Association Lifetime Excellence in Research Award for her research and contributions to the veterinary profession, taking a one health approach that addresses the interconnectedness of humans, animals and the environment. Recently, she was awarded the UC Davis Chancellor’s Award for International Engagement.

She received her D.V.M. degree from Colorado State University and Ph.D. from the University of Edinburgh, Scotland.



**JEAN-PIERRE DELPLANQUE,  
Ph.D.**  
*Acting Vice Provost of Graduate  
Education and Dean, Graduate Studies,  
UC Davis (USA)*

Jean-Pierre Delplanque is a professor of mechanical and aerospace engineering and acting vice provost of graduate education and dean of Graduate Studies at UC Davis.

In this role, Delplanque provides guidance for graduate students to the resources offered by UC Davis.

Delplanque’s research and educational activities focus on the multiscale modeling and numerical simulation of complex fluid and thermal processes and systems. Applications are interdisciplinary in nature, crossing the

boundaries between mechanical, chemical, biomedical engineering, and materials science, with specific examples ranging from the characterization of patient ventilator asynchrony in the critical care setting to additive manufacturing technologies.

His experience with students from a variety of angles—on top of his personal experience as an international graduate student himself—equips him with the ability to work closely with the diverse UC Davis community.

Delplanque received a Ph.D. in mechanical and aerospace engineering from UC Irvine.



**MONTAGUE DEMMENT, Ph.D.**

*Vice President for International Programs, Association of Public and Land Grant Universities (APRU) (USA)*

Montague “Tag” W. Demment is vice president for international programs at the Association of Public and Land-Grant Universities (APLU).

In his position at APLU, Demment leads APLU’s international programs, has been involved in advocacy for higher education support to developing countries, and has been instrumental in the creation of APLU’s Africa-U.S. Higher Education Initiative and organized the process by which the research community provided input to the U.S. Agency for International Development’s (USIAD) Feed the Future research strategy.

Formerly, he was director of the Global Livestock Collaborative Research Support Program, a program funded by USAID that focused on research and capacity development. Additionally, he is a professor emeritus of ecology at the University of California, Davis.

Demment has conducted research on nutritional ecology of herbivores and nutrition of children in developing countries.

He is past president of AIARD (Association for Agriculture and Rural Development) and chaired the National Association of State Universities and Land-Grant Colleges’ International Agriculture Coordinating Committee that advocates for international issues in agriculture. Demment served as a Peace Corps Volunteer in Ethiopia.

Demment earned his bachelor’s degree from Harvard University and his master’s degree and Ph.D. from the University of Wisconsin-Madison in zoology and was an National Institute of Health postdoctoral fellow in animal nutrition at Cornell University.



**JENNY DIXON, Ph.D.**

*Deputy Vice-Chancellor of Strategic Engagement, University of Auckland (New Zealand)*

Jenny Dixon is deputy vice-chancellor of strategic engagement at the University of Auckland. She is responsible for international education and international relations, government and stakeholder engagement, alumni relations and development, and Pacific strategy and recruitment. She has oversight of the North Asia Centre for Asia-Pacific Excellence, hosted by the University of Auckland in partnership with the universities of Otago, Victoria (Wellington) and Waikato, to enhance New Zealand’s business engagement and cultural understanding with the region. Dixon also chairs the board of the New Zealand Institute for Pacific Research, a research consortium of three New Zealand universities. She represents the university on the New Zealand - U.S. Council.

Dixon leads a number of university and external bodies, including the University’s Creative Thinking Board, an initiative that fosters arts-led creativity in academic programmes. She represents the university on several international organisations, including Universitas 21 (U21), Association of Pacific Rim Universities (APRU) and Asia-Pacific Association for International Education (APAIE). Dixon leads the U21 Senior Leaders’ Group and is chair of the APRU Asia-Pacific Women in Leadership steering committee.

Dixon joined the University of Auckland in 2001 as professor of planning, having previously held academic positions at Massey University and the University of Waikato, following an early period as an urban planner in local government and consultancy. Additionally, she has previously held the positions of head of the School of Architecture and Planning and dean of Creative Arts and Industries at the University of Auckland. Her research has

focused on urban development and policy, environmental governance and sustainable design. Throughout her career, she has maintained strong interdisciplinary interests in research collaborations with a particular focus on the built environment.



**PAUL DODD, Ph.D.**

*Associate Vice Chancellor for Interdisciplinary Research and Strategic Initiatives, UC Davis (USA)*

Paul Dodd is associate vice chancellor for interdisciplinary research and strategic initiatives at UC Davis.

A native of Ireland, Dodd's professional expertise is in nanoscale material science and applied physics and he has worked at the interface between industry, academia and government for more than 20 years.

At UC Davis, Dodd is responsible for development of interdisciplinary research activities for the university and for initiating, supporting and coordinating the development of new strategic research partnerships, domestic and international. Dodd administers the 10 organized research units on campus as well as the university's special research programs and central facilities.

Prior to UC Davis, Dodd was director of the Industry Collaborative Programs at Science Foundation Ireland (SFI) where he was responsible for large-scale collaborative research centers and clusters in Information and Communication Technologies, Life Sciences and Renewable Energy.

In 2009-10, Dodd worked in the Silicon Valley, with the Irish government's enterprise development agency. His role was to develop research links between industry in the United States and academic research groups and centers in Ireland.

Dodd holds bachelor and master's degrees in materials science from Trinity College Dublin and was awarded a Ph.D. from Queen's University Belfast for research on nanoscale magnetic materials and devices with applications in magnetic recording head technologies.



**ANTHONY EGERU, Ph.D.**

*Program Manager, Training and Community Development, Regional Universities Forum for Capacity Building in Agriculture (Uganda)*

Anthony Egeru is program manager at Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), which is dedicated to overseeing graduate training and networks of specialization in the Common Market for Eastern and Southern Africa.

Previously, Egeru served as an assistant lecturer and teacher at Merryland High School in Entebbe, Uganda. Egeru is an emerging researcher with a ResearchGate Score of 13.22 and H-index of 4. He has 5,012 ResearchGate reads and 14,998 reads and reviews in academia.

Egeru has multi-faceted experience in research including in systems ecology with a focus on management of dryland ecosystems, early warning system, rangeland health monitoring, land use planning, pastoral livelihoods and agro-forestry systems. Additionally, he has research experience in climate change, adaptation and resilience programming and analysis, development processes and curriculum development.

Egeru is currently engaged in the advancement of ecology and hydrological integration research, which includes running an ecohydrological project and research team. Within the development continuum, Egeru's current engagement is facilitating the transformation of African agricultural universities to meaningfully contribute to Africa's development. This requires in-depth engagement with youth across various sectors, including agricultural value chains, as well as the identification of young talent potential in entrepreneurship and enterprise development. Within that role, Egeru also is facilitating efforts to focus on youth incubation and agribusiness, and on building a cadre of focused, change agents and leaders for Africa within Africa.



**ADEL EL ZAÏM, Ph.D.**

*Chief Internationalization Officer,  
University of Ottawa (Canada)*

Adel El Zaïm is the chief internationalization officer of the

University of Ottawa, Canada. He also is the founding president of Internationalization Canada.

El Zaïm has worked for several organizations in higher education, most recently as the executive director for international programs at the University of British Columbia. He was director general, internationalization, at Université de Sherbrooke, in Quebec, Canada from 2012 to 2014, and senior program specialist, information and communication technologies for development, with Canada's International Development Research Centre, based in the Middle East.

El Zaïm is a member of the Board of the Association of International Education Administrators (AIEA). He also serves as the chairman of the AIEA Awards Committee and is a member of the AIEA Strategic Planning Task Force. El Zaïm was a founding member, vice-president and president of the Internet Society in Québec (ISOC-Québec). Additionally, he was a member of the Civil Society Bureau for the World Summit on the Information Society from 2003 to 2005. He served as a member of the board of several organizations including Association ISOC Quebec, Collège de Maisonneuve (Montréal), Association of Arab translators and the Economic Local Development Centre Sherbrooke Innopole (Sherbrooke, Quebec).

El Zaïm was born in Tripoli, Lebanon. After graduating from the Lebanese University in French language and literature, he prepared a master's degree in didactics at University of Paris III, Sorbonne-Nouvelle, and received a Ph.D. in linguistics in 1994 from the University of Paris IV, Sorbonne. El Zaïm undertook his post-doctorate research at Université du Québec à Montréal in semiotics and human language technologies.



**BRAD FENWICK, D.V.M.,  
Ph.D.**

*Senior Vice President, Global Strategic  
Alliances, ELSEVIER (USA)*

Brad Fenwick is a professor of pathobiology and microbiology at the University of Tennessee and senior vice president of global strategic alliances with Elsevier.

As senior vice president with Elsevier, Fenwick is charged with forging non-commercial partnerships and productive collaborations with and between universities, research centers, industry, governments and funding bodies to enhance higher education and academic research productivity and success.

He has held numerous senior administrative positions in academia, including graduate dean, vice president for research, president for intellectual properties, and vice chancellor for research and engagement. Prior to working at Elsevier, he held research executive roles as vice chancellor for research and engagement at the University of Tennessee, Knoxville where he also served as professor of pathobiology in the College of Veterinary Medicine.

Additionally, Fenwick has held more than 20 federally appointed or elected positions during his career, and was chief scientist for the U.S. Department of Agriculture.

He has received numerous awards and recognitions for his research and leadership, holds several patents (including a patent for the Kennel Cough Vaccine), founded a biotechnology company and consults globally with companies, universities and governments.

He is a fellow with the American Council on Education, fellow with the American Association for the Advancement of Science, a Jefferson fellow and science advisor with the U.S. Department of State, and a distinguished fellow with National Academies of Practice.

He holds a doctorate in veterinary medicine from Kansas State University and a doctoral degree in comparative pathology from the University of California, Davis.





## LILIANA FERRER SILVA

*Consul General of Mexico  
in Sacramento (USA)*

Liliana Ferrer Silva was ratified by the Mexican Senate in March 2017 to be consul general of México in Sacramento.

Ferrer Silva has been a member of the Mexican Foreign Service since 1993. Prior to her appointment to Sacramento, Ferrer Silva was chancellery director at the Mexican Embassy in France. Earlier in her career, she was director of political affairs at the Mexican Embassy in the United States.

She holds a bachelor's degree in international relations from UC Davis and a master's degree in international relations from UC San Diego.

In a significant historical coincidence, Ferrer Silva's father, Ambassador Carlos Ferrer Argote, also served as consul general of Mexico in Sacramento from October 1979 to November 1982.



## JOSÉ CELSO FREIRE JUNIOR, Ph.D.

*Associate Provost for International Affairs,  
Universidade Estadual Paulista (Brazil)*

José Celso Freire Junior is associate provost for international affairs at Universidade Estadual Paulista (UNESP) and an associate professor in computer science at São Paulo State University, UNESP in Brazil.

Previously, he served as president of FAUBAI—the Brazilian Association for International Education. As such, he has participated as a panelist to several international events like Going Global, EAIE, AIEA, CAIE and NAFSA. He was formerly head of the Department of Electrical Engineering in the School of Engineering at UNESP Guaratinguetá and coordinator of the undergraduate program.

He is an electrical engineer graduate from Federal University of Rio de Janeiro who has been published more than 60 times in scientific journals and

has nearly 1,000 ResearchGate reads and 75 citations. He has been published in Times Higher Education.

He has a master's degree in computer science from the University of São Paulo and a Ph.D. in software engineering from the Université de Grenoble I (Joseph Fourier University) in France.



## JOHN GARAMENDI

*U.S. Congressman, California's  
3rd District (USA)*

John Garamendi is a U.S. Congressman representing California's third district.

He joined the U.S. House of Representatives on November 5, 2009 and has nearly four decades of public service.

As California's 46th Lieutenant Governor, Garamendi was chair of the Commission for Economic Development, where he transformed this important body into a powerhouse to advocate for workforce development, vocational education and research. He also served as a regent of the University of California, a trustee for the California State University System and chair of the California State Lands Commission.

Garamendi was elected to the California legislature in 1974, where he served for 16 years, attaining the position of senate majority leader. His laws established California's emergency medical system, expanded community health clinics, created a work-oriented welfare program, protected Lake Tahoe and Mono Lakes, and developed an overall state agenda for competitiveness and scientific advancement.

In 1991, Garamendi became California's Insurance Commissioner. He successfully implemented Proposition 103, reforming the auto and homeowner insurance industry. In 1995, President Bill Clinton appointed Garamendi as Deputy Secretary of the U.S. Interior Department. In 2001, Garamendi was reelected California's Insurance Commissioner where his work culminated in new laws that led to a 58 percent reduction in workers compensation costs.



One of Garamendi's passions is a commitment to international service. Garamendi and his wife, Patti, started their married life as Peace Corps volunteers teaching and doing community development work in Ethiopia. From 1998-2000, Garamendi led a group of returned Peace Corps volunteers on a peace mission during the Ethiopian-Eritrea war and helped negotiate a peace treaty. Garamendi created a similar team that assisted in peace negotiations in the Congo Civil War.

Garamendi graduated with a bachelor's degree in business from UC Berkeley and a master's degree from Harvard Business School.



**ERIC GARFUNKEL, Ph.D.**

*Vice President, Rutgers, The State University of New Jersey Global (USA)*

Eric Garfunkel is the vice president for global affairs at Rutgers. He is responsible for the university's internationalization efforts, including study abroad and global education, cross-cultural and global programming, development and support of international relations and partnerships, and services for visiting students and scholars. He also is a distinguished professor of chemistry and physics.

During his 30 years at Rutgers, Garfunkel played a leading role in the formation of the multidisciplinary Laboratory for Surface Modification and later the Institute for Advanced Materials, Devices and Nanotechnology – interdisciplinary centers that focus on atomic scale design and manipulation of materials and devices. He also served as chair of the department of chemistry and chemical biology. His recent research has focused on the synthesis and characterization of materials that can be used for alternative energy (solar and battery) and nanoelectronics. He has received funding from the National Science Foundation, the U.S. Department of Energy and the Semiconductor Research Corporation.

Garfunkel is a global scholar who has held visiting professorships across the world, including Germany, China, Italy and France. He is currently deeply involved in developing global partnerships and research collaborations

with African universities, and he has helped lead the international activities of the Materials Research Society for over a decade.

Garfunkel earned his Ph.D. in chemistry from UC Berkeley in 1983 and his bachelor's from Haverford College in 1978. Before coming to Rutgers, he was a postdoctoral fellow at University of Paris-Sud in Paris, France and at Fudan University in Shanghai, China.



**DAVID THEO GOLDBERG, Ph.D.**

*Director, University of California Humanities Research Institute (USA/South Africa)*

David Theo Goldberg is the director of the University of California Humanities Research Institute, the University of California system-wide research facility for the human sciences and theoretical research in the arts. He also holds faculty appointments as professor of criminology, law and society, comparative literature and anthropology at UC Irvine, and is a fellow of the UCI Critical Theory Institute.

As a leading scholar of critical race theory, Goldberg's work ranges over issues of political theory, race and racism, ethics, law and society, critical theory, cultural studies and, increasingly, digital humanities.

From 1990 to 2000, he was professor at Arizona State University, where he directed the School of Justice Studies from 1995 to 2000. He co-founded the Humanities, Arts, Science and Technology Advanced Collaboratory to promote partnerships between the human sciences, arts, social sciences and technology and supercomputing interests for advancing research, teaching and public outreach. Currently, he is co-leading the building of the MacArthur-UCHRI Research Hub in Digital Media and Learning at UC Irvine, an on-site and virtual research facility designed to promote field-building in the area.

He has authored numerous books, including "The Threat of Race," "The Racial State" and "Racial Subjects: Writing on Race in America". He also has edited or co-edited many volumes, including "A Companion to Gender Studies," "A

Companion to Racial and Ethnic Studies” and “Between Law and Culture: Relocating Legal Studies.”

Earlier in his career, Goldberg produced independent films and music videos (some of which aired on MTV), and co-directed the award-winning short film on South Africa, “The Island.”

A native of South Africa, Goldberg earned degrees in law and economics from the University of Cape Town before earning a Ph.D. in philosophy from the City University of New York in 1985.



### **OTTO GONZALEZ, Ph.D.**

*Director, Center for International Programs, National Institute of Food and Agriculture, United States Department of Agriculture (USA)*

Otto Gonzalez is the director of the Center for International Programs at the National Institute of Food and Agriculture (NIFA), U.S. Department of Agriculture (USDA).

As Director of NIFA’s Center for International Programs, Gonzalez sees his role as helping to bring NIFA to the world and the world to NIFA. He and his international programs team work to enhance the ability of NIFA and the U.S. universities it serves to engage globally and advance U.S. agriculture, and to address priority agricultural issues of global concern.

Prior to joining NIFA Gonzalez was a special projects officer in the Office of Capacity Building and Development in the USDA Foreign Agricultural Service (FAS), based in Washington, D.C. where for 19 years he led international technical assistance activities to build capacity in natural resource management, agriculture and rural development.

Gonzalez has worked on numerous projects throughout the globe, including in Afghanistan, Pakistan and Central America among other countries. Gonzalez’s international projects have included work with other USDA agencies, U.S. universities, United Nation agencies and various countries’ ministries of agriculture.

Prior to joining USDA/FAS Gonzalez served as an American Association for the Advancement of Science (AAAS) diplomacy fellow with USAID.

Gonzalez earned his bachelor’s degree in biological sciences and master’s degree in biology from Fordham University in Bronx, New York. He earned his Ph.D. in natural resources and environment, with a focus in forest ecology, from the University of Michigan.



### **OLIVIA GRAEVE, Ph.D.**

*Professor, Department of Mechanical and Aerospace Engineering, UC San Diego (USA)*

Olivia Graeve is currently a professor in the Department of Mechanical and Aerospace Engineering at UC San Diego.

She also is director of the CaliBaja Center for Resilient Materials and Systems, and faculty director of the IDEA Engineering Student Center in the UC San Diego Jacobs School of Engineering. Previously, she was an associate professor at Alfred University and an assistant professor at the University of Nevada, Reno.

Graeve has gained international recognition in the area of nanomaterials manufacturing. Her area of research focuses on the design and processing of new materials for extreme environments including extremes of temperature, pressure and radiation. Her expertise connects fundamental principles of materials processing with specific engineering needs, with special emphasis on electromagnetic multi-functional materials for sensors and energy applications.

She has four patents, has been published in more than 80 journals and co-authored four book or book chapters. She is currently the editor of *Scientific Reports* and *Material Letters*.

Graeve has been involved in many activities related to the recruitment and retention of women and Hispanic students in science and engineering and has received many prestigious awards. More recently, she was inducted into the Tijuana Walk of Fame and to the Mexican Academy of Engineering and was named Fellow of the American Ceramic Society. In 2017, she was named one of the 100 Most Powerful Women of Mexico by *Forbes Magazine*.

Graeve received her bachelor’s degree in structural engineering from UC San Diego and her Ph.D. in material science and engineering from UC Davis.



### **ROSA GRIMALDI, Ph.D.**

*Professor, Entrepreneurship and Innovation Management, University of Bologna (Spain)*

Rosa Grimaldi is professor of entrepreneurship and innovation management at the University of Bologna. She teaches technology entrepreneurship at the University of Bologna's School of Engineering at postgraduate and executive education levels. At the University of Bologna, she has served as deputy director for entrepreneurship since 2015. She is the director of the Executive Master in Technology and Innovation Management program at Bologna Business School.

Most of her scientific production is about new business creation, entrepreneurship and technology transfer. On these topics she has publications in several prestigious international journals including *Research Policy*, *R&D Management*, *Technology and Innovation Management*, *Journal of Business Venturing*, *Small Business Economics*, *Scientometrics*, *Entrepreneurship Theory and Practice* and *Journal of Technology Transfer*. She has been involved in several research projects on technology transfer. Among them, one of the most relevant is a Foreign Investment Review Board project on the Re-organization of the Italian Public Research System.

She is on the editorial board of the *Journal of Technology Transfer* and she is advisory editor for *Research Policy*. Additionally, she is on the board of Istituto Studi Avanzati—an organization, which is part of the Alma Mater Studiorum Università di Bologna, that is dedicated to providing scholars and scientists of the University of Bologna with the instruments and the means necessary to bring visiting professors and junior scientists to Bologna and to stimulate the circulation of ideas and the exchange of knowledge.



### **GUILLERMO HERNÁNDEZ-DUQUE DELGADILLO, Ph.D.**

*General Director of Strategic Partnerships, National Association of Universities and Higher Education Institutions (ANUIES) (Mexico)*

Guillermo Hernández is general director of strategic partnerships for the National Association of Universities and Higher Education Institutions (ANUIES)—a role he has served since 2013.

Hernández has more than 30 years of international experience in research and development with students, faculty, researchers and rectors within North America, Latin-American, Europe, Israel, China and Japan. Hernández also has worked in research and development for national and international companies in four different countries since 1983.

Hernández has been a professor since 1979, teaching classes from High School to doctoral level in four countries. He has been director, rector and founder of several Institutions in Mexico, including the Research Center for Preservation of Infrastructure in Campeche, the School of Engineering at the Mayab University in Merida and the Polytechnic University of Aguascalientes.

He was a member of the National Research System in Mexico—the most important research association in Mexico—for more than 15 years. He has relevant scientific publications with Harvard University and ASTM International. Additionally, he has worked with NASA on the development of new technologies that can be applied in the space, on earth and can be commercialized too. He has published roughly 70 scientific articles and given more than 50 international presentations.

He received a bachelor's degree in industrial engineering at the Technological Institute of Aguascalientes, a master's degree in metallurgy and material sciences at the National Autonomous University of Mexico, a doctoral degree at Université de Technologie de Compiègne in France and then two post doctorates: one in Sweden, the other in the United States. He also did an executive master's in business strategic direction at the Pan-American Institute of Businesses.





**RALPH J. HEXTER, Ph.D.**

*Provost and Executive Vice Chancellor,  
UC Davis (USA)*

Ralph Hexter is provost and executive vice chancellor at UC Davis and also holds an appointment as distinguished professor of classics and comparative literature.

Hexter began his career in academia at Yale University, where he taught in the classics department from 1981 to 1991. During his final year there, he served as acting associate dean of the Graduate School.

He then directed the graduate program in comparative literature at the University of Colorado at Boulder before joining the faculty at the University of California, Berkeley. At UC Berkeley he was a professor of classics and comparative literature before advancing to posts as chair of comparative literature, dean of humanities, dean of arts and humanities, and executive dean of the College of Letters and Science. From 2005 through 2010, he served as president of Hampshire College in Amherst, Massachusetts.

He was named provost and executive vice chancellor at UC Davis in 2011. In April 2016, he was appointed acting chancellor, and from September 2016 through July 2017 he served as interim chancellor. On August 1, 2017, he returned to his post as provost and executive vice chancellor.

A recipient of the University of Massachusetts' Continuing the Legacy of Stonewall Award (2008), Hexter was a founding member of the LGBTQ Presidents in Higher Education. From 2012 to 2014, he co-chaired with Barbara J. French the UC Task Force and Implementation Team on Lesbian, Gay, Bisexual and Transgender Climate & Inclusion.

His research focus is on the interpretation and meaning of classical Greek and Roman literature from antiquity through the Middle Ages to modern times. In 2016, Hexter was elected to the American Academy of Arts and Sciences.

Hexter received his bachelor's degree in English literature from Harvard College in 1974. He earned bachelor's and master's degrees in classics and modern languages at Oxford University in 1977 and 1982, respectively. He also earned an M.Phil. and a Ph.D. in comparative literature from Yale University in 1979 and 1982.



**ELIZABETH L. HILLMAN,  
Ph.D., J.D.**

*President of Mills College (USA)*

Elizabeth "Beth" L. Hillman is the 14th President of Mills College and has been a national leader in promoting gender and racial equity, especially in the U.S. armed forces.

A scholar of history and law, Hillman frequently speaks and publishes on issues of sexual violence and gender equity and teaches courses at Mills. Her expertise in sexual violence and gender issues in the military has won national and international recognition. She has been an expert witness for Congress and national commissions, most recently at a Congressional Women's Caucus hearing to address nonconsensual pornography in the U.S. military, and served on the Response Systems to Adult Sexual Assault Crimes Panel — an independent panel chartered by the U.S. Congress to study and make recommendations about sexual assault in the U.S. military. A veteran of the U.S. Air Force, Hillman was president of the National Institute of Military Justice and reporter for the two Cox Commission reports, which recommended improvements to the U.S. military justice system.

Hillman also has engaged nationally in higher education leadership. She serves on the board of the Women's College Coalition, as a member of the NCAA Division III Chancellors and Presidents Advisory Group, and is a founding member of the President's Alliance on Higher Education and Immigration. She was appointed to serve on a blue-ribbon study group, the National Academies of Sciences, Engineering and Medicine Committee Addressing Sexual Harassment in the Science, Engineering, and Medical Workplaces that released a path-breaking report in 2018.

Hillman is the former provost and academic dean at the University of California, Hastings College of the Law, where she also served as the chief academic officer. She served as professor of law and director of faculty development at Rutgers Law School and taught at Yale University and the U.S. Air Force Academy. She also served as a space operations officer and orbital analyst in the U.S. Air Force.

She received her bachelor's degree in electrical engineering from Duke University and an master's in history from the University of Pennsylvania. She received a J.D. from Yale Law School and a Ph.D. in history, with a focus on women's history, from Yale University.



**J. BRITT HOLBROOK, Ph.D.**

*Assistant Professor, Department of Humanities, New Jersey Institute of Technology (USA)*

J. Britt Holbrook is a philosopher and assistant professor in the Department of Humanities at the New Jersey Institute of Technology.

His research has focused on the use of broader societal impacts criteria in the peer review of grant proposals at both U.S. and European funding agencies, philosophical and policy issues surrounding open access and the development of quantitative metrics of broader impacts. In 2005, he published the first scholarly article on National Science Foundation's Broader Impacts Merit Review Criterion and has published widely on this and related topics.

From 2008 to 2014, Holbrook served as assistant director of University of North Texas' Center for the Study of Interdisciplinarity. Prior to his current position, he held a previous appointment as a visiting assistant professor at the School of Public Policy at Georgia Institute of Technology.

Holbrook is currently serving as a member of the European Commission Expert Group on Indicators for Researchers Engagement with Open Science and its Impacts. In addition to his work on science and technology policy, Holbrook conducts research on the ethics of science, engineering and technology. He was editor-in-chief of "Ethics, Science, Technology, and Engineering: A Global Resource". As a member of the American Association for the Advancement of Science's Committee on Scientific Freedom and Responsibility, Holbrook was one of the co-authors of the *AAAS Statement on Scientific Freedom and Responsibility*.

Holbrook has given talks in over a dozen countries around the world, including visits to numerous funding agencies in five countries. He earned his Ph.D. from Emory University.



**FATIMA KARAKI, M.D.**

*Assistant Professor, Division of Hospital Medicine, UCSF (USA)*

Fatima Karaki is an assistant professor at the University of California, San Francisco, Division of Hospital Medicine. She is board certified in internal medicine and cares for adult inpatients on the hospital medicine service and resident inpatient service at Zuckerberg San Francisco General Hospital.

Her academic and clinical interest is in refugee and asylum seeker health, with a focus on the Syrian refugee crisis in the Middle East. Her scope of work includes needs assessment, non-communicable disease burden, barriers to accessing care and health disparities research.

Karaki is the founder and director of the Refugee and Asylum seeker Health Initiative (RAHI) at UCSF, which aims to foster academic activity, research, education and community awareness in refugee health. Additionally, she is a founding member of the North American Society of Refugee Healthcare Providers. She is a member of the UCSF Global Health Sciences Faculty Affiliation Program and the Global Health Core.

Karaki collaborates with experts at Zuckerberg San Francisco General Hospital and University of California, Berkeley, to advance refugee health research and education in the academic field. She has provided emergency medical relief to patients in refugee camps and slums throughout Europe, the Middle East and India. She has volunteered and performed research in Beirut, Lebanon; Lesbos, Greece; and along the Balkan route in Europe, in the context of the Syrian refugee crisis. She also has worked and done research in Bangladesh in the context of the Rohingya refugee crisis. Karaki is a leader in the refugee awareness movement in the Bay Area.

Karaki is passionate about clinical teaching, diversity in medicine and physician well-being. She is enrolled in the Clinical Teaching Certificate program at UCSF and is a member of the Residency Diversity Committee. She has taught social and behavioral sciences, foundations of patient care and serves as a clinical microsystems clerkship preceptor in the Bridges curriculum, in addition to teaching on inpatient wards. She also is developing curriculum on Middle Eastern refugee health for graduate



students and residents in collaboration with UC Berkeley. Her work includes developing novel programs to increase physician well-being and caregiver support at UCSF, and she serves as a Schwartz rounds steering committee member at ZSFG.

Karaki completed her bachelor's degree in biology at the American University of Beirut and her M.D. at University of Michigan; completed internship and residency in internal medicine at Washington University in St. Louis.



**ERMIAS KEBREAB, Ph.D.**

*Associate Vice Provost of Academic Programs, Global Affairs, UC Davis (USA)*

Ermias Kebreab is a professor of animal science and holds the Sesnon Endowed Chair in Sustainable Animal Agriculture in the Department of Animal Science at UC Davis. He was appointed associate vice provost at UC Davis Global Affairs in 2016 to advance the university's engagement in international education. He also serves as the deputy director of Agricultural Sustainability Institute.

Kebreab conducts research on reducing the impact of animal agriculture on the environment, including the sustainable use of feed additives. He has served on several national and international committees including the Intergovernmental Panel on Climate Change, United Nations Food and Agriculture Organization and National Academies of Science Engineering and Medicine.

He has mentored or hosted more than 30 scholars in his laboratory and authored over 200 peer-reviewed articles, 34 book chapters and edited five books.

Kebreab received several awards including International Agriculture Award and AFIA Ruminant Nutrition Award from American Society of Animal Science. Kebreab received his bachelor's degree from University of Asmara, Eritrea, and his master's degree and Ph.D. from University of Reading, United Kingdom.



**JULIA KENT, Ph.D.**

*Vice President, Best Practices and Strategic Initiatives at Council of Graduate School (USA)*

Julia Kent is vice president of best practices and strategic initiatives at Council of Graduate Schools.

Prior to becoming vice president, Kent served numerous roles at the Council of Graduate Schools having earned several promotions for her work. Her former positions with the organization include assistant vice president of communications, advancement and best practices, director of global communications and best practices, and program manager.

She has conducted research on a broad range of topics in graduate education, including Ph.D. career pathways, diversity issues, graduate admissions processes, international collaborations, quality and accountability, research ethics and integrity, and the preparation of future faculty.

She has served as co-principal investigator for a multi-phase project, Understanding PhD Career Pathways for Program Improvement, and directs a Hobsons-supported initiative on holistic review in graduate admissions processes. Since 2009, Kent also has overseen Council of Graduate Schools' Global Summit, an international meeting of graduate deans that has convened graduate education leaders from 30 countries in its 10-year history.

Prior to working at Council of Graduate Schools, Kent was assistant professor of English at the American University of Beirut.

Kent holds a Ph.D. in British literature from Johns Hopkins University, a maîtrise de lettres modernes from the Université de Paris VII, and a bachelor's degree from Amherst College.



### **GARY S. MAY, Ph.D.**

*Chancellor, UC Davis (USA)*

Gary S. May became UC Davis' seventh chancellor on Aug. 1, 2017. He leads the most comprehensive campus in the University of California system, with four colleges and six professional schools that offer 104 undergraduate majors and 96 graduate and professional degrees. UC Davis enrolls about 37,000 students, brings in nearly \$800 million annually in sponsored research and contributes at least \$8 billion to the California economy each year.

An accomplished scholar and engineer, May came to UC Davis from the Georgia Institute of Technology in Atlanta, where he had been for nearly three decades, most recently as dean of the institute's College of Engineering — the largest and most diverse school of its kind in the nation.

Prior to being dean, May was the Steve W. Chaddick Chair of Georgia Tech's School of Electrical and Computer Engineering and, prior to that, he was the executive assistant to then-Georgia Tech President G. Wayne Clough.

May is known as a dynamic leader with a passion for helping others succeed. He believes success is best judged by how we enhance the lives of others. Throughout his career, he has championed diversity in both higher education and the workplace. He developed and led programs to attract, mentor and retain underrepresented women and ethnic minorities in the STEM fields of science, technology, engineering and math.

In 2015, President Obama honored him with the Presidential Award for Excellence in STEM Mentoring.

In February 2018, May was elected as a member of the National Academy of Engineering — one of the highest honors in the field — for his innovations in educational programs for underrepresented groups in engineering and his contributions to semiconductor manufacturing research.

May has won numerous other honors for his research in computer-aided manufacturing of integrated circuits and has authored more than 200 technical publications, contributed to 15 books and holds a patent in this topic.

In 2010, he was named Outstanding Engineering Alumnus of UC Berkeley, where he earned his master's and Ph.D. degrees in electrical engineering and computer science.



### **JOHN McARTHUR, Ph.D.**

*Senior Fellow in the Global Economy and Development program at the Brookings Institution; Senior Adviser to the UN Foundation (Canada)*

John W. McArthur is a senior fellow in the Global Economy and Development program at the Brookings Institution. He is also a senior adviser to the United Nations Foundation and a board governor for the International Development Research Centre.

His previous roles include the chief executive officer of Millennium Promise, a senior fellow with the Hong Kong-based Fung Global Institute, a faculty member at Columbia University's School of International and Public Affairs, and policy director at the University's Earth Institute.

McArthur also has served as deputy director of the United Nations Millennium Project and was a research fellow at the Center for International Development at Harvard University, where he supported the World Health Organization's Commission on Macroeconomics and Health and co-authored the *Global Competitiveness Report*.

He co-chaired the International Commission on Education for Sustainable Development Practice and founded the global network of Masters in Development Practice programs that has since been launched across five continents. Additionally, he chaired the World Economic Forum's Global Agenda Council on Poverty and Sustainable Development, serves as a member of the Forum's Advisory Board on Sustainability and Competitiveness, and was recognized as a Young Global Leader in 2009. He currently serves as a member of the Global Futures Council on International Governance and Public-Private Partnerships.

A native of Canada, McArthur's work has been published in a variety of academic journals including the Brookings Papers on Economic Activity and Journal of Development Economics, and his writing for more general audiences has appeared in venues such as Foreign Affairs and The

Chronicle of Higher Education. His work and perspectives have been cited across many media outlets, including The Economist, BBC, CNN, CBC, USA Today, U.S. News & World Report, Bloomberg, Reuters, Al-Jazeera and the Washington Post.

McArthur received his bachelor's degree from the University of British Columbia, his master's degree from Harvard University and his Ph.D. from Oxford University, which he attended as a Rhodes Scholar.



**MEREDITH McQUAID, J.D.**

*Associate Vice President and Dean of International Programs, University of Minnesota system (USA)*

Meredith McQuaid is the associate vice president and dean of international programs for the University of Minnesota system. In this role, she promotes the global dimensions of teaching, research, and engagement across all colleges and campuses of the University.

She also has administrative oversight for the global programs and strategy alliance, which includes the Center for Advanced Research on Language Acquisition, China Center, Confucius Institute, Interdisciplinary Center for the Study of Global Change, International Student and Scholar Services and the Learning Abroad Center.

Previously, she served as associate dean of Administration and International Programs from 1995 to 2005, and director of international and graduate Programs at the University of Minnesota Law School where she led a number of domestic and international initiatives. She was responsible for the management and oversight of the law school's programs in China and she greatly expanded the law school's international exchange programs and increased the number of international students.

She holds an adjunct faculty position and teaches Introduction to American Law and Legal Research and Writing for Foreign Lawyers. She created and supervised the Judicial Observation Program for Foreign Lawyers, unique in U.S. law schools. In 2004, McQuaid served as chair of the Graduate Programs for Foreign Lawyers section of the American Association of Law Schools.

She served as president of NAFSA: Association of International Educators (2011-2012), the largest nonprofit professional association dedicated to international education. She has served on the University of Minnesota China Center Advisory Council, and on several selection committees for prestigious international fellowships, including the USIA Edmund Muskie Scholars Program.

Prior to her career in academia, McQuaid was an associate attorney for Popham, Haik, Schnobrick & Kaufman in Minneapolis, working in immigration and civil litigation.

McQuaid earned her bachelor's degree in linguistics from the University of Minnesota and her J.D. degree, cum laude, from the University of Minnesota Law School.



**BRIAN MITCHELL, Ph.D.**

*Interim Associate Dean for Graduate Studies, Research, and Facilities; Professor of Chemical and Biomolecular Engineering, Tulane University (USA)*

Brian Mitchell is a professor of chemical and biomolecular engineering and interim associate dean for graduate studies, research and facilities in the School of Science and Engineering at Tulane University in New Orleans.

He served as associate provost for Graduate Studies and Research from 2006 to 2014 and was the Council of Graduate Schools' dean-in-residence to the National Science Foundation (NSF) Division of Graduate Education from 2015-16 where he advised both organizations on graduate education policy issues.

Mitchell is a fellow of the American Institute of Chemical Engineers. His international research experiences have all been in Germany at: The University Karlsruhe, the University of Freiberg/Sachsen, the German Federal Materials Laboratory in Adlershof, the German Aerospace Agency in Köln and the Max Planck Institute for Colloids and Interfaces in Potsdam.

Mitchell has more than 70 peer-reviewed publications, two patents and is author of a textbook on materials engineering and science. He is a member of the American Chemical Society Graduate Education Advisory Board, the German Academic Exchange Service (DAAD) Alumni Association Board and is a DAAD research ambassador.



Mitchell graduated with a bachelor's in chemical engineering from the University of Illinois-Urbana and received his master's and Ph.D. degrees in chemical engineering from the University of Wisconsin-Madison.



**PRASANT MOHAPATRA,  
Ph.D.**

*Vice Chancellor for Research,  
UC Davis (USA)*

Prasant Mohapatra is the vice chancellor for research at UC Davis.

In this role, Mohapatra oversees the university's annual research funding portfolio, and leads the university's corporate research relations and translation of UC Davis research into knowledge and technology of significant public benefit.

Other leadership positions Mohapatra has held at UC Davis include: dean of graduate studies and vice provost of graduate education, associate chancellor, interim vice provost and chief information officer, and chair of the computer science department. He held the first Tim Bucher Family Endowed Chair in the Department of Computer Science from 2009-2013, and has remained a professor in the computer science department.

Mohapatra has led multiple large-scale collaborative projects. He was the lead researcher for the Multi-University Research Initiative (MURI) from the Army Research Office, the UC Davis lead researcher for the Collaborative Technology Alliance (CTA) and the thrust leader for a Cybersecurity Research Alliance (CRA) award.

In addition, Mohapatra led a National Science Foundation funded project for mentoring underrepresented undergraduate students. He is the principal investigator of an NSF grant for Bridge to Doctorate, an initiative to facilitate and train underrepresented minority groups to pursue doctorate studies in STEM areas. He has received funding from the Mellon Foundation to explore the transformation of the graduate admission process for the holistic evaluation to increase graduate student diversity.

Currently, Mohapatra has seven patents and has published about 350 research papers and has been cited more than

10,000 times. He has received several best paper awards and has delivered distinguished lectures all over the world. He has graduated 33 doctoral degree students and 25 master's degree students. Mohapatra is a fellow of the American Association for the Advancement of Science and an elected fellow of IEEE, the world largest professional organization dedicated to advancing technology.

Mohapatra received his bachelor's degree from National Institute of Technology (NIT), Rourkela, India, his master's degree from the University of Rhode Island and his doctoral degree from Pennsylvania State University. He has received outstanding alumni awards from both NIT, Rourkela and Pennsylvania State University.



**JOSÉ-LUIS MORÁN-LÓPEZ,  
Ph.D.**

*President, Mexico Academy of Sciences  
(Mexico)*

José-Luis Morán-López is president of the Mexican Academy of Sciences and a full researcher at the department of the advanced materials division of the Potosí Institute of Scientific and Technological Research.

Morán-López has made many significant contributions to the scientific community in Mexico. In 1996, the Potosí Council of Science and Technology was created under Morán-López's leadership in the state of San Luis Potosí, Mexico, as a state agency for the promotion of science and technology, of which Morán-López was its first general director. From that office, he also promoted the creation of the Potosí Institute for Scientific and Technological Research (IPICYT), one of the finest Mexican institutions with international recognition to date. The IPICYT National Center of Supercomputing also was created under his leadership in 2004.

He has received numerous prestigious awards throughout his distinguished career including being awarded the National Sciences and Arts Prize in the areas of Physico-Mathematical and Natural Sciences in 1996, the highest distinction for scientists in Mexico.

Morán-López has published more than 215 scientific articles in journals and books with international circulation, 40 popular science articles and contributed



to newspapers. He is co-editor of nine specialized books, two in Springer Verlag publishing house and seven in Plenum Press.

Throughout his scientific career, he has been visiting professor at several European and Latin American universities. Additionally, he has served as guest lecturer at several meetings and conferences both in Mexico and abroad.

He is a member of the American Physical Society, American Vacuum Society, Materials Research Society, European Physical Society and The World Academy of Sciences, among others. Morán-López also served as President of the Scientific Committee of the International Council of Sciences from 2012 to 2016.

Morán-López obtained a bachelor's degree in physics from the School of Physics of the Autonomous University of San Luis Potosí in 1972 and a master's degree in theoretical physics from the Center for Research and Advanced Studies of the National Polytechnic Institute (Mexico) in 1974, graduating Magna Cum Laude as a Doctor Rerum Naturalium from the Free University of Berlin in 1977.



**CHRISTIAN NICOLAI  
ORELLANA, Ph.D.**

*Executive Director, National Commission  
for Science and Technological Research  
(CONICYT) (Chile)*

Christian Nicolai Orellana is executive director of Comisión Nacional de Investigación Científica y Tecnológica (CONICYT), a role he has held since March 2015. CONICYT is a Chilean government agency responsible for coordinating, promoting and aiding scientific research in the country.

In recent years, Nicolai has worked as a consultant and advisor on regulatory affairs and public policy in the areas of information and communication technology, management in the public and private sectors, and in strategic planning and management control, both in Chile and abroad.

From 2008 to 2012 he was the director of the Tecnolimpia Program at the National Council for Clean Production.

Additionally, between 2008 and 2010, he was chairman of the board of CIMM Tecnológicas y Servicios S.A., a company that offers services to the mining sector. Prior to that, Nicolai worked at Economic Commissions for Latin America and the Caribbean on various information and communications technology projects within the division of productive development.

In March 2000, President of Chile Ricardo Lagos appointed Nicolai as undersecretary for telecommunications, where he served until 2006. Nicolai also worked various telecommunications companies including ENTEL Chile and at Telefonica Chile where he held various high-level positions including manager of Telefonica Mundo, executive vice president of corporate affairs at Telefonica Chile, general manager of INTERCOM, and vice president of multimedia network, among others.

Nicolai graduated in electrical civil engineering, certified in business management, at the Universidad de Chile, where he worked as an academician at the electrical engineering department.



**KEVIN NJABO, Ph.D.**

*Africa Director and Assistant Adjunct  
Professor, Center for Tropical Research,  
UCLA (Cameroon/USA)*

Kevin Njabo is the associate director and Africa director for the UCLA Center for Tropical Research. Njabo also holds a joint faculty position at both the UCLA Institute of the Environment and Sustainability as well as the School of Public Health. His current research interests are examining the link between biodiversity and human health. His previous research focused on infectious tropical diseases, biodiversity and health where he worked with a team investigating the effects of deforestation on the prevalence of blood-borne pathogens in African rainforest birds and vectors. Additionally, he currently supervises a team on the National Institutes of Health research project to study the spill-over dynamics of avian influenza in both Cameroon and Egypt. Njabo also serves as a visiting professor to the National University of Rwanda and to the Higher Institute of Environmental Sciences in Yaounde, Cameroon.

A native of Cameroon, Njabo serves on several professional bodies including global vice president of the Society for Conservation Biology, council member of the Pan African Ornithological Congress Committee, member of the International Association for Impact Assessment, and member of the American Association for the Advancement of Science. He also is a reviewer for the Society for Conservation Biology (SCB) student awards; a mentor for the SCB's Africa Section Communications/Mentoring Program and an invited reviewer for numerous journals including *Molecular Ecology*, *Molecular Phylogenetics and Evolution*, *Ostrich: Journal African of Ornithology*, *African Journal of Ecology*, *IBIS International Journal of Avian Science*, the *International Journal of Biodiversity and Conservation*, *Parasitology and Vector Biology*, and *Climate Change*.

Njabo earned his bachelor's degree from University of Ife, his master's degree from the University of Ibadan and his Ph.D. from Boston University.



**DOLORES O'RIORDAN, Ph.D.**  
*Director of University College Dublin  
Institute of Food and Health, Vice President  
for Global Engagement at University  
College Dublin (Ireland)*

Dolores O'Riordan is director of the University College Dublin's Institute of Food and Health, and vice president for global engagement at University College Dublin.

In her role as the university's vice president for global engagement, she is responsible for developing and implementing the university's global strategy. This involves implementing best practice in international activities, developing active global partnerships at the university level, diversifying the student body and embedding a global culture within university life.

In her role as director of the university's Institute of Food and Health, she is responsible for the development and implementation of the university's Agri-Food and Health research strategy, ranging from food production at farm level through to human health. She joined the food science team at University College Dublin in 1995 and is now a full professor of food science.

Prior to working in academia, she had six years of international experience as an employee of Kerry Ingredients, Plc., where she developed and promoted the application of innovative ingredients for the global markets.

O'Riordan's research focuses on the physico-chemical properties of food ingredients and creating food structures that enhance health benefits; she has secured substantial research funding (~€40 million) from competitively won grants, to conduct research in this area. She has supervised 45 postgraduate students (19 Ph.D. students and 26 graduate students) to completion and has more than 100 peer reviewed publications in high impact journals and has an H-index of 33. She has generated patents and licensed her research output to industry. She is University of College Dublin's principal investigator in two large private-public research partnerships: Food for Health Ireland, and the Dairy Processing Technology Centre. Her research programme has active links with colleagues in Europe, the U.S., Australia and China. She has been the recipient of academic and commercial awards for her contribution to food research.

O'Riordan completed a bachelor's degree in dairy science and a Ph.D. in food protein chemistry. Additionally, she was a research fellow at University College Cork and Cornell University.



**ARIEL ORELLANA LÓPEZ, Ph.D.**  
*Vice Chancellor, Life Sciences School,  
Universidad Andrés Bello (Chile)*

Ariel Orellana is the vicerrector de investigación y doctorado at Universidad Andrés Bello.

He started his career at the department of biology at the Universidad de Chile, Santiago. He spent 10 years there before moving to Universidad Andrés Bello where he founded the Center for Plant Biotechnology. In 2011, he was appointed by the President of the Chile to become a member of the Higher Council for Science, becoming its president during 2013. He served in this position until 2014.

Orellana's research has led to more than 75 articles published in peer review journals including prestigious

journals such as Science, Nature Genetics and the Proceedings of the National Academy of Science. He has been invited as speaker at different conferences and meetings including the Gordon Research Conferences. In addition, he has been invited to give seminars in a number of institutions worldwide including University of Cambridge, University of California, Boston University and Max Planck Institute among others. His work has been cited 3025 times and his H-Index is 31.

He has taught cell biology for undergrads and Ph.D. students and trained more than 50 undergraduate students. He has also mentored 13 Ph.D. students and 12 postdoctoral fellows. He has served in different committees at national level (accreditation of doctoral programs, Fondecyt grants study section and doctoral degree scholarship, among others). He also served as advisor for the Ministry of Economy in Chile and the Chilean Senate on the DNA Registry Law.

Orellana has received a number of awards and honors during his career: Outstanding Young Scientist award by the Chilean Society of Biology (1996); President of the Chilean Society for Cell Biology (2001-2002); member of the Frontiers in Science Program by the Chilean Academy of Sciences (2004-2007).

Orellana obtained his Ph.D. in biological sciences from P. Universidad Católica de Chile. Then, he spent three years as a postdoctoral fellow in biochemistry and molecular biology at the University of Massachusetts Medical Center, supported by fellowships from The Pew Charitable Trusts and the National Institutes of Health.



### **LORENZO ORTONA, J.D.**

*Consul General of Italy in San Francisco (USA)*

Lorenzo Ortona is consul general of Italy in San Francisco.

After graduating from the Università La Sapienza di Roma with a law degree, Ortona began his diplomatic career in 2002 with his first assignment at the office dealing with Organization for Security and Co-operation in Europe (OSCE) issues and then with the Russia and former USSR countries desk at the Italian Ministry of Foreign Affairs.

From 2003 to 2004, he was the deputy chief of staff for the undersecretary of state at the Foreign Affairs Ministry, responsible for Europe and the Balkan States. From 2004 to 2006, he served as part of the crisis unit of the Ministry of Foreign Affairs.

From 2006 to 2010, he was assigned to serve in the Permanent Representation of Italy to the European Union in Brussels, dealing specifically with foreign and security policy of the EU in the Political and Security Committee.

In 2010 he was assigned to the Italian Embassy in Israel as the head of the economic, scientific and commercial office.

From December 2013 through 2016 he worked as the chief of staff of the directorate general of the European Union at the Ministry of Foreign Affairs and International Cooperation.

In Sept. 2016, Ortona has assumed his role as consul general of Italy in San Francisco.



### **CONCEPTA MARGARET MCMANUS PIMENTEL, Ph.D.**

*Director of International Relations, Coordination for the Improvement of Higher Education Personnel (Brazil)*

Concepta “Connie” Margaret McManus Pimentel is a professor at University of Brasilia and works with conservation, characterization and use of animal genetic resources as well as landscape genetics.

Additionally, she is currently director of International Affairs at The Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES) as well as a Level 1A Researcher at the National Council of Technological and Scientific Development (CNPq) in the area of animal sciences. She is currently member of the Brazilian Academy of Sciences.

She has served as vice-coordinator of the National Institute of Science and Technology (INCT) in Genetic-Sanitary Information of Brazilian Livestock (INCT- Pecuária) since 2008. To date, she has published 292 articles in scientific journals, four books, 19 book chapters, and more than 500 abstracts in different congresses and has been invited to speak at numerous congresses in Brazil and abroad.



Pimentel has already supervised 52 master's degrees, 22 doctorate degrees and 10 post-doctoral researchers. She also has been a member of approval boards of over 70 master's and 35 doctorate's thesis and 24 qualifications. She has supervised more than 50 Scientific Initiation works and 28 other works of research and extension projects.

In 2006, she won the Brazilian Animal Breeding Society award for best work in the area of small ruminants during the 8th World Congress on Genetics Applied to Animal Production and in 2009 she won the Research Prize of the Federal District in the Cerrado, Environment and Agrarian area of the Federal District Research Support Foundation. In 2013 she received the title of commander of the Order of Merit of Veterinary Medicine of the Brazilian Society of Veterinary Medicine.

Pimentel holds a bachelor's degree in agricultural science from University College Dublin, a master's degree in genetics and animal breeding from the University of Edinburgh and a Ph.D. in genetics and animal breeding from Oxford University, with a postdoc at the University of Sydney, Australia.



**SALLY (SARAH) PRATT, Ph.D.**  
*Vice Provost for Graduate Programs,  
University of Southern California (USA)*

Sally (Sarah) Pratt became vice provost for graduate programs at the University of Southern California (USC) in 2010, after serving for eight years as dean of Academic Programs in USC Dornsife College. She is responsible for Ph.D., master's and graduate certificate programs across the humanities, sciences and social sciences, as well as 17 professional schools, including engineering, business, public policy, social work, health sciences and cinema, among others.

She serves as a member of the board of directors of the Council of Graduate Schools and currently serves as president of the executive board of the Association of American Universities' Association of Graduate Schools. She is interested in a wide range of issues, including increasing the diversity and globalization of graduate study, academic professional development, ways of addressing sexual misconduct, and the nature and use of the Ph.D. degree.

She has served on the accreditation committee of the Western Association of Schools and Colleges, and participated in the Strategic Leaders Global Summit on Graduate Education in Alaska in 2017, and in Johannesburg, South Africa, in 2018.

Within USC, she has increased efforts to support diversity and academic professional development, and reduced the teaching load for graduate students to allow more time for study and decrease time to degree. She has implemented a system of Ph.D. Program Progress Data and established a group called Friends of the Graduate School made up of representatives from academic departments, financial aid, campus security, health services and other offices.

Pratt received her bachelor's degree from Yale University and her Ph.D. from Columbia University. Her research focuses on Russian poetry. She and remains active in the field of Slavic studies.



**JOANNA REGULSKA, Ph.D.**  
*Vice Provost and Associate Chancellor  
of Global Affairs, UC Davis (USA)*

Joanna Regulska is the vice provost and associate chancellor of Global Affairs at the University of California, Davis, where she also is a professor of Gender, Sexuality and Women's Studies.

For more than three decades Regulska has led large-scale programs that have transformed institutions, established collaborative partnerships, and substantially improved internationally focused services for students, faculty, and staff—and has raised more than \$9 million in public and private project support.

Most recently, Regulska has developed visionary initiatives at UC Davis: striving to provide all students with valuable international or intercultural experiences before graduation through a UC Davis Big Idea of Global Education for All; and strengthening the university's international research, education and engagement efforts through Global Centers.

As the first vice president for international and global affairs at Rutgers, The State University of New Jersey, Regulska led a major effort to build the first



centralized office: the Centers for Global Advancement and International Affairs. In 2014, Rutgers earned NAFSA's Senator Paul Simon Award for comprehensive internationalization. In 2013, Regulska received the Fulbright U.S.-Korea International Education Administrator Award.

Regulska founded the Local Democracy Partnership Program and serves on the Founder Board of The Foundation in Support of Local Democracy, the largest NGO in Poland. In recognition of her work, the President of Poland awarded Regulska the Cavalier Cross of the Order of Merit of the Republic of Poland (1996), the Knight's Cross of the Order of Restitution of the Republic of Poland (2004), and the Commander's Cross of the Order of Polonia Restituta (2014).

A respected scholar, Regulska's research concentrates on women's political activism, grassroots mobilization, decentralization, democracy and democratization, with a focus on Europe and the Caucasus. She is the author or co-author of eight books, author of over 100 articles, chapters and reviews, and member of numerous advisory boards.

A commitment to diversity, social justice, and the empowerment of women led Regulska to establish graduate degree programs in gender studies at the Central European University (Hungary) and Tbilisi State University (Republic of Georgia).

Regulska earned her master's degree from the University of Warsaw, Poland and Ph.D. from the University of Colorado, Boulder. She received a Doctor Honoris Causa from Tbilisi State University, Georgia.



### **TIANZHI REN, Ph.D.**

*Professor, Agro-Environmental Protection Institute of Ministry of Agriculture, Chinese Academy of Agricultural Sciences (China)*

Tianzhi Ren is a professor and director of department research management at the Chinese Academy of Agricultural Sciences (CAAS).

He has held previous positions of deputy director of CAAS' Institute and Agricultural Resources and Regional Planning, and director of CAAS' Agro-environmental

Protection Institute. He is currently engaged in research in the fields of no-point-source pollution control, ecological agriculture and sustainable agricultural development.

Ren also serves as vice chairman of the Chinese Association of Farming System, the Chinese Association of Agricultural Resource and Regional Planning, and the Chinese Society of Agricultural Resource and Environment.

He has received many prestigious awards from such organizations as the Ministry of Agriculture of the People's Republic of China, the China Association for Science and Technology, and the Leading Group Office of the First National Census on Pollution Source of the State Council. In 2017, he was given a State Scientific and Technology Prize (State Scientific and Technological Progress Award, Second Class) —the highest honor in People's Republic of China in science and technology that recognizes citizens and organizations who have made remarkable contributions to scientific and technological progress, and to promote the development of science and technology.

Ren received his bachelor's degree in agronomy from Shenyang Agricultural University, his master's degree in crop cultivation and farming system from Shenyang Agricultural University and his Ph.D. in crop cultivation and farming systems from China Agricultural University. In 2001, he was a visiting scholar at UC Davis, which is consistently ranked one of the top agricultural school in the world.



### **JESSICA ROBIN, Ph.D.**

*Countries and Regions Cluster Lead, Office of International Science and Engineering, National Science Foundation (USA)*

Jessica Robin serves as the countries and regions cluster lead in the office of international science and engineering (OISE) at the National Science Foundation (NSF).

In this role, Robin manages a team of program directors in all aspects of international representation for NSF. Robin also chairs the foundation-wide Integrated Research Advanced by Interdisciplinary Science and Engineering (RAISE) working group and has been actively involved

in developing the growing convergence research at NSF funding opportunity. In addition to OISE, she has worked in the mathematical and physical sciences and geosciences directorates at NSF.

Prior to joining NSF, she worked at NASA Goddard Space Flight Center and was an adjunct lecturer at the University of Maryland.

Robin has more than 20 years of professional experience leading people of diverse backgrounds, expertise, and work styles to successfully partner on international cross-cutting science and education initiatives. These experiences include working across all fields of science and engineering and bringing together government, higher education, non-profit and private sectors.

Her research integrates field and satellite data with computer models and focuses on how natural and human-made changes affect different environments. The goal of this research is to help us understand how climate change affects growing seasons in different parts of the world.

Robin's educational experiences range from giving presentations to, and developing research projects with, K-12 students around the world, conducting teacher training workshops and teaching college courses at the University of Maryland-Baltimore County. Additionally, she developed soil science curricula for the GLOBE program and Cornell University and co-authored the Basic GAPS software and manual.

Robin received her Ph.D. in geographical sciences from the University of Maryland, College Park, and earned master's of science, master's of professional studies and bachelor's degrees from Cornell University. She has lived in Argentina, Uruguay, Indonesia and Scotland. Fluent in Spanish, she has served as an U.S. Embassy science fellow in Peru and as a Peace Corps volunteer in Bolivia.



### **IAN ROWLANDS, Ph.D.**

*Associate Vice-President, International, University of Waterloo (Canada)*

Ian Rowlands is associate vice-president international at the University of Waterloo. In this role, he heads Waterloo International and is also chair of the global prominence and internationalization theme of the university's strategic plan.

Rowlands also is a professor in the School of Environment, Resources and Sustainability at the University of Waterloo.

Rowlands has research and teaching interests in energy management strategies, corporate sustainability and international education. His work has been published in many international journals, including *Applied Energy*, *Energy Policy* and *Renewable Energy*. He has served on a number of advisory boards, including those convened by the International Energy Agency, Natural Resources Canada and the Ontario Power Authority.

Rowlands has previously worked at the United Nations Collaborating Centre on Energy and Environment, Risø National Laboratory, in Roskilde, Denmark as an energy planner. He also was a lecturer in international relations and development studies at the London School of Economics and Political Science.

Rowlands earned a Ph.D. in international relations from the University of London (London School of Economics and Political Science) and a bachelor's degree in engineering science from the University of Toronto.



### **KATE SCOW, Ph.D.**

*Professor of Soil Science and Microbial Ecology; Director of the Russell Ranch Sustainable Agriculture Facility, UC Davis (USA)*

Kate Scow is professor of soil science and microbial ecology in the Department of Land, Air and Water Resources and director of the Russell Ranch Sustainable Agriculture Facility.

Scow also is chair of the International Agricultural Development Graduate Group. She is a fellow of the Soil

Science Society of America and chief editor for the journal *Soil Biology and Biochemistry*.

Scow's research program investigates the role of soil microbial communities in providing ecosystem services in agricultural and polluted ecosystems. Specifically, she investigates linkages between microbial diversity and nitrogen cycling, responses of soil functional diversity to long-term management practices, effects of co-contaminants in organic amendments on soil communities, and works in Uganda on soil management and irrigation practices for vegetable production by smallholder farmers.

She received her master's and Ph.D. degrees in soil science from Cornell University in 1986 and 1989, respectively.



### **MACKENZIE SMITH**

*University Librarian and Vice Provost of Digital Scholarship, UC Davis (USA)*

UC Davis University Librarian and Vice Provost of Digital

Scholarship MacKenzie Smith is one of the nation's leading experts in digital libraries, information technology and digital knowledge management. As head of the UC Davis Library, one of the top academic research libraries in North America, she has defined and implemented a strategy to integrate digital resources and information technology with traditional library services to better serve the UC Davis academic community.

As vice provost of digital scholarship, Smith defines and leads major university initiatives involving information technology, data science and informatics, data governance, knowledge management, research computing and digital publishing. She helped launch and continues to oversee the UC Davis Data Science Initiative, which supports research in every discipline and coordinates with data technology and analytics units across the university. She also co-chaired the committee to define the university's new data science academic program. At a national level, Smith oversees UC Davis' participation in large-scale digitization initiatives, such as the Google Books initiative.

Smith has been a research fellow for the Creative Commons organization, where she worked on intellectual property policy for scientific research data and advocacy for open science. She has served on the National Technical Information Services advisory board of the U.S. Department of Commerce, and the boards of the Corporation for Digital Scholarship, ORCID, the UC Press and other organizations dedicated to creating efficient and effective access to knowledge.

Prior to coming to UC Davis, Smith spent nearly three decades working at the libraries of Harvard University and the Massachusetts Institute of Technology, where she played a critical role in helping those universities adapt their libraries and research and teaching programs to the emerging technology of the digital age. At MIT, Smith also led the development of DSpace, the open source software platform for digital archives, now used by hundreds of universities worldwide and managed by a non-profit organization.

She holds degrees from the University of Washington and the University of Chicago.



### **NELSON TORTO, Ph.D.**

*Executive Director, African Academy of Sciences (Botswana)*

Nelson Torto is the executive director of the African Academy of Sciences—a pan African organization headquartered in Kenya that aims to drive sustainable development in Africa through science technology and innovation.

Prior to joining the AAS, Torto was the founding chief executive officer of the Botswana Institute for Technology Research and Innovation, a national research institution.

His other appointments include full professor in analytical chemistry and head of the chemistry department at Rhodes University; and associate professor at the University of Botswana, where he undertook several responsibilities covering coordinator of analytical chemistry and founding director of the Centre for Scientific Research Indigenous Knowledge and Innovation, which is credited with the establishment of the indigenous knowledge policy for Botswana.



Torto has published over 130 papers, being cited more than 2,000 times, has an H-index of 25, helped 19 Ph.D. students and several master's degree students graduate and successfully apply for patents for his research in material chemistry.

He is a recipient of several international awards including the American Chemical Society's Young Investigators in Separation Science Award, the Award for Collaboration in Analytical Chemistry from the Nigerian Chemical Society, and Osuni Chapter.

An internationally recognized speaker, Torto has also served in various capacities in pan African and international networks and organizations including being the Founding Secretary General for the African Network of Analytical Chemists. He is currently a panel member of the Research Council U.K. and an editorial board member for the international journal *Chromatographia*. He is a fellow of the following science academies: the Botswana Academy of Sciences, the African Academy of Sciences and the Royal Society of Chemistry.

He received his bachelor's degree in chemistry (honours) from University of Manchester Institute of Science and Technology, a master's degree from the University of Botswana and a Ph.D. in analytical chemistry from Lund University in Sweden.



**PAUL TOWNSEND, Ph.D.**

*Director, Irish Photonic Innovation Center (Ireland)*

Paul Townsend has more than 25 years of experience as a scientist and research leader. He is an internationally recognized expert in advanced photonic communication systems. Specifically, he is known for his pioneering work on quantum key distribution in optical networks, and his work in world-leading demonstrations of high-capacity broadband access networks.

Townsend has worked in leading international research laboratories including at Bell Communications Research, British Telecommunications and Corning, Inc. He is currently head of the Photonics Centre at Tyndall—a company which comprises approximately 150 researchers

who work on many of the key aspects of photonics. At Tyndall, he also is head of the 25-person Photonics Systems Group.

Townsend is involved in many external activities. For example, he currently serves as an elected member of the Photonics21's Board of Stakeholders, a reviewer of the European Research Council Senior's grant award, a member of the Fraunhofer Heinrich Hertz Institute 2017 strategic review panel, and conference co-chair of the European Conference on Optical Communications in 2019.

He is currently a research professor in the Department of Physics at University College Cork, Ireland and a fellow of the Institute of Physics in U.K. and Ireland. His work has led to approximately 200 peer reviewed journal and conference publications including 40 invited contributions and 30 registered patents in 16 different families. He holds a Ph.D. in physics from the University of Cambridge.



**CHRISTOPHER TREMEWAN, Ph.D.**

*Secretary General, Association of Pacific Rim Universities (APRU) (Hong Kong)*

Christopher Tremewan is the secretary general of Association of Pacific Rim Universities (APRU). He is APRU's fourth secretary general and has held the role since June 2011. During his tenure, Tremewan has led a consensus-building process to re-focus the organization through implementing a new strategic framework that delivers increasing value to its members.

A specialist on social regulation in Southeast Asia, Tremewan's research has recently focused his research on internationalization and diversity, national growth strategies and the politicization of ethnicity. He was recently a member of an European Union-funded collaborative research project on the globalization of higher education.

Before heading the APRU secretariat, he was the vice president and pro vice-chancellor international of the University of Auckland—New Zealand's leading research university. He also has held previous positions as a visiting professor at Peking University and a visiting fellow at Georgetown University. He was elected a senior associate



member of St. Antony's College at Oxford University, from where he published the book *The Political Economy of Social Control* in Singapore.

He is the founding director of the New Zealand Asia Institute—a role he served for four years. Previously, he held positions as a senior consultant, executive secretary and research director for international development organizations based in Hong Kong, Singapore and Tokyo.

Tremewan is a member of the international board of Regional Action on Climate Change and was previously a member of the Ministry of Education New Zealand and an advisory trustee of the Chinese Language Foundation. He was the founder of The Cambodia Trust. He has led reviews of university international strategies and operations as well as being a member of a U.S. accreditation panel.

Tremewan holds bachelor's and master's degrees in social anthropology from the University of Auckland, a Ph.D. in political science from the University of Canterbury, and a master's degree in public administration from Harvard University.



**LORNE WHITEHEAD, Ph.D.**

*Professor, Physics and Astronomy,  
University of British Columbia (Canada)*

Lorne Whitehead is the special advisor on innovation, entrepreneurship and research at the University of British Columbia. In this capacity he serves as the convener for two networks of research universities collaborating on applying improvement science to the challenges of leadership in teaching and research.

Whitehead joined University of British Columbia as a full-time faculty member 1994. He is a professor in the department of physics and astronomy, carrying out studies of the optical, electrical and mechanical properties of micro-structured surfaces, a field in which he holds more than 130 U.S. patents. His technology is used in many computer screens and televisions.

In addition to his research at University of British Columbia, Whitehead has held a number of administrative

positions including associate dean, dean pro-tem and vice president of academic and leader of education innovation.

Whitehead's career has involved sustained innovation in technology, business and administration. His research focuses on the application of novel geometrical approaches to applied physics challenges, with a focus on the interactions of electromagnetic fields with microstructures. In addition to the usual scientific publications, largely in journals such as *Applied Optics* and the *Journal of the Illuminating Engineering Society*, this work has generated a large number of patents and, perhaps most importantly, license agreements with industry that have resulted in a significant amount of commercial activity.

From 1983 to 1993 he served as Chief Executive Officer of TIR Systems, a University of British Columbia spin-off company that he founded and which eventually grew to 200 employees prior to being purchased by Philips in 2007. Whitehead also has helped to start six additional new companies, commercializing technologies that he developed in his University of British Columbia laboratory – Sonigistix, Brightside (purchased by Dolby Laboratories), Boreal Genomics, SunCentral Inc., CLEARink Displays and Elix Wireless Systems.

Whitehead received a Ph.D. in physics from the University of British Columbia.



**MELLISSA WITHERS,  
Ph.D., MHS**

*Director, Global Health Program of the  
Association of Pacific Rim Universities;  
Associate Professor, University of Southern  
California Keck School of Medicine (USA)*

Mellissa Withers is associate professor at the University of Southern California Keck School of Medicine in the Department of Preventive Medicine. She is based at the USC Institute for Global Health. She also is director of the Global Health Program of the Association of Pacific Rim Universities (APRU), a non-profit network of 50 leading research universities in the Pacific Rim region.

Her primary research interests lie in community participatory research, mental health, gender-based violence and global sexual and reproductive health. She

teaches classes for undergraduate and graduate students, including introduction to global health, global health ethics, global health leadership and case studies in global health.

Withers is the editor of two books: “Global Perspectives on Sexual and Reproductive Health Across the Lifecourse” and “Global Health Leadership: Case Studies from the Asia-Pacific” (in press).

Withers has published more than 30 scientific articles and serves on the editorial boards of six international global

health journals. She has conducted research in Latin America, sub-Saharan Africa and Asia.

Withers received a Ph.D. from the Department of Community Health Sciences at the UCLA Fielding School of Public Health with a minor in cultural anthropology. She also holds a master’s degree in international health from the Johns Hopkins Bloomberg School of Public Health and a bachelor’s degree in international development from UC Berkeley.



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