

# Next Einstein Forum

## Members of the Scientific Program Committee

Current April 2015

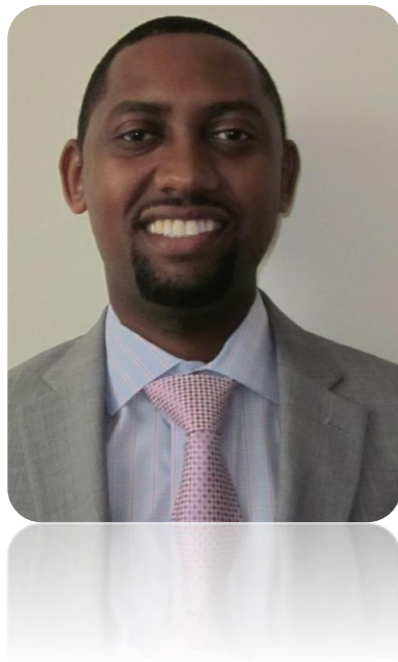


**NEXT  
EINSTEIN  
FORUM**



# Solomon Assefa, Ethiopia

Research Scientist, IBM



## ▶ Current Positions

- **Research Scientist**, IBM Watson Labs, New York, USA
- **Director**, Growth Markets and Strategic Initiatives, IBM

## ▶ Biographical Information

- **MIT Tech Review TR35**, Top Young Innovators under 35
- World's Top Young Innovators under 35
- **Young Global Leader**, World Economic Forum
- **Technical Accomplishment Award**, IBM
- **Corporate Recognition Award**, IBM
- **Invention Achievement Awards**, IBM
- **PhD** in Physics, MIT



# Bruce Bassett, South Africa

Professor of Mathematics and Cosmology Researcher



## ▶ Current Positions

- **Professor of Mathematics** at the University of Cape Town
- **Head of Cosmology** at the African Institute for Mathematical Sciences in South Africa
- **Research Cosmologist** at the South African Astronomical Observatory
- **Vice President** of the International Astrostatistics Association

## ▶ Biographical Information

- Former **Senior Lecturer**, Institute of Cosmology and Gravitation at Portsmouth University
- University of Cape Town's Fellows' Award for his outstanding scholarly achievements
- Co-author of over 100 publications with more than 10,000 citations including the popular science book “Introducing Relativity”
- **Ph.D.** in Mathematics at the International School for Advanced Studies, Italy



# Jean-Pierre Bourguignon, France

President, European Research Council



## ▶ Current Positions

- **President**, European Research Council

## ▶ Biographical Information

- Former **Director**, Institut des Hautes Études Scientifiques (1994-2013)
- Former **Professor**, École polytechnique (1986-2012)
- Former **President**, Société Mathématique de France
- Former **President**, European Mathematical Society (1995-1998)
- Former **Member of the Board**, EuroScience organisation (2002-2006)
- **Fellow**, CNRS
- **Winner**, Prix Paul Langevin (1987)
- **Winner**, Prix du Rayonnement Français in Mathematical Sciences and Physics
- **Foreign member**, Royal Spanish Academy of Sciences
- **Honorary member**, London Mathematical Society
- **Honorary Doctorates**, Keio University, Japan and Nankai University, China
- **PhD in Mathematical Sciences**, Paris VII

**NEXT  
EINSTEIN  
FORUM**



# Phillip Campbell, UK

Editor-in-Chief of Nature



## ▶ Current Positions

- **Editor-in-Chief**, Nature
- **Founding trustee**, MQ: Transforming mental health
- **Member**, World Economic Forum's Global Agenda Council on Mental Health and Wellbeing

## ▶ Biographical Information

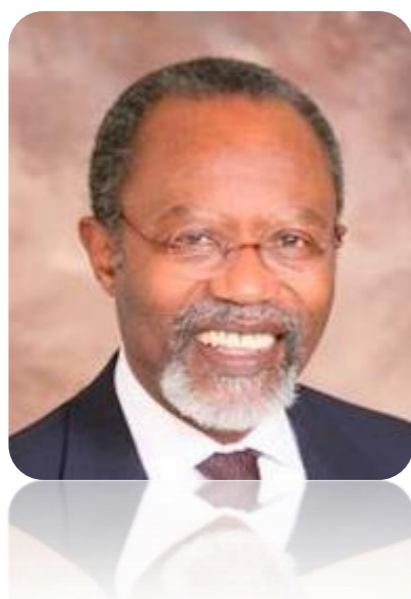
- Held Various positions at Physics World
- **Fellow**, Royal Astronomical Society
- **Fellow**, Institute of Physics
- **Honorary Doctorates**, University of Leicester, University of Bristol
- **Ph.D in Atmospheric Physics**, University of Leicester

**NEXT  
EINSTEIN  
FORUM**



# Phillip Clay, USA

Professor and Former Chancellor at MIT, Vice-Chair MasterCard Foundation



## ▶ Current Positions

- **Professor** of City Planning, MIT
- **Chair** of the Board of The Community Builders, Inc.
- **Board Member** for several foundations and non-profits, including The Kresge Foundation
- **Vice Chair** at The MasterCard Foundation Board
- **Member** of Massachusetts Technology Collaborative Board of Directors, and the Board of Trustees of the University of North Carolina at Chapel Hill

## ▶ Biographical Information

- Former **Chancellor** of the Massachusetts Institute of Technology
- Former **Head** of the Department of Urban Studies and Planning, MIT
- **Senior Fellow**, Ford Foundation
- **Ph.D in City Planning**, MIT



# Aminata Diallo SALL, Senegal

Professor of Physiology and CEO for the APEES



## ▶ Current Positions

- **CEO** of the Alliance for the Promotion of Excellence in Higher Education (APEES), Senegal
- **Professor** of Physiology, Cheikh Anta Diop University in Dakar, Senegal
- **Coordinator** of the National Programme against Hepatitis, since 2007

## ▶ Biographical Information

- Former **Executive Director** of the National Program against hepatitis B (1998-2007)
- Former **Head** of the Laboratory of Dakar Social Hygiene Institute (1982-1992)
- Various academic positions
- **Full member** of the Academy of Sciences of Senegal
- **Member** of the French Society of Physiology since 1997
- **Knight** of the National Order of Merit, France
- **Ph.D.** in Biological Sciences, University of Cheikh Anta Diop, Senegal

**NEXT  
EINSTEIN  
FORUM**



# Salif Gaye, Senegal

Professor of Engineering at the University of Thiès



## ▶ Current Positions

- **Director** of the Institute of Technology at the University of Thiès (since 2012)
- **Scientific Secretary** of the Graduate School, at l'Ecole Polytechnique de Thiès du Sénégal (since 2011)

## ▶ Biographical Information

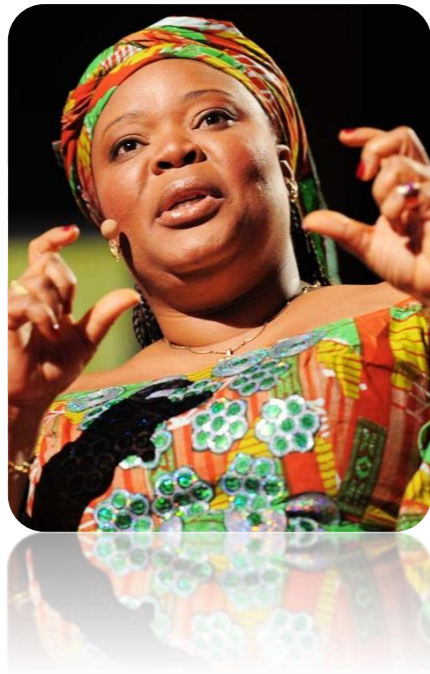
- Former **Head of Department** (Electromechanical engineering) at l'Ecole Polytechnique de Thiès du Sénégal
- Held various academic positions with the University of Thiès
- **Published** numerous scientific papers, books and supervised many master's and Ph.D. students.
- **Ph.Ds.** in Engineering and Physics, Cheikh Anta Diop University in Senegal





# Leymah Gbowee, Liberia

Nobel Peace Prize Winner, Peace Activist



## ▶ Current Positions

- **Peace Activist**

## ▶ Biographical Information

- **Activist**, Women of Liberia Mass Action for Peace
- **Nobel Peace Prize**, 2011
- Oxfam America Right the Wrong Award
- The New York Women's Foundation Century Award
- Villanova Peace Award from Villanova University
- Alumna of the Year, Eastern Mennonite University
- Living Legends Award for Service to Humanity
- John F. Kennedy Profile in Courage Award
- Honor Award for Courageous Commitment for Human Rights of Women
- **MA**, Cultural transformation, Eastern Mennonite University

**NEXT  
EINSTEIN  
FORUM**



# Barry Green, South Africa

Director and Chief Academic Officer, AIMS-South Africa



## ▶ Current Positions

- **Director**, AIMS-South Africa
- Chief Academic Officer, AIMS-NEI

## ▶ Biographical Information

- Former **Professor of Mathematics**, Stellenbosch University
- Former **Head of Department**, Mathematics, Stellenbosch University
- **Member of the Board**, Pan-African Centre of Mathematics
- Impressive publications record
- **PhD in Mathematics**, University of Cape Town



# Nkem Khumbah, Cameroon

Mathematician and Executive Curator, NEF



## ▶ Current Positions

- **Mathematics** lecturer at the University of Michigan
- **Coordinator** of the STEM-Africa Initiative at the University of Michigan
- Executive Curator at the NEF

## ▶ Biographical Information

- Former **Assistant Professor of Mathematics** at North Georgia College and State University
- **Research fellow** - Institute for Pure and Applied Mathematics (UCLA)
- **Research fellow** - Mathematical Science Research Institute (UC Berkeley)
- **Ph.D.** in Information Technology from George Mason University



# H.E. Silas Lwakabamba, Rwanda

Minister of Education (Rwanda) and Professor of Engineering



## ▶ Current Positions

- **Minister** of Education in the Government of Rwanda (since 2014)

## ▶ Biographical Information

- Former **Minister of Infrastructure**, Rwandan Government (2013 – 2014)
- Former **Rector** of the National University of Rwanda (2006 - 2013)
- **Founding Rector** of Rwanda's Kigali Institute of Science and Technology (1997-2006)
- Former **Chair**, Inter University Council for East Africa
- Former **Executive Board member** of UNESCO
- Former **Chairman** of the Board of Directors of the African Virtual University
- **Co-chair** of the Advisory Board of the US Africa Higher Education Initiative (2008)
- **Ph.D.** in Engineering at the University of Leeds, UK (1975)



# Julie Makani, Tanzania

Research Fellow, Wellcome Trust



## ▶ Current Positions

- **Wellcome Trust Research Fellow and Senior Lecturer**, Muhimbili University of Health and Allied Sciences
- **Principal Investigator, Visiting Fellow and Consultant Physician**, Nuffield College, University of Oxford

## ▶ Biographical Information

- Former **Research fellow**, University of Oxford
- Archbishop Desmond Tutu Leadership Fellowship (2009)
- **Winner**, 2011 Royal Society Pfizer Award
- **PhD in Clinical Epidemiology**, University of Oxford



# Souleymane Mboup, Senegal

Professor of Microbiology and Co-discoverer of HIV-2 virus



## ▶ Current Positions

- **Professor of Microbiology**, Faculty of Medicine and Pharmacy, University of Cheikh Anta Diop, Dakar
- **Head** of the Bacteriology-Virology Laboratory of CHU Le Dantec, Dakar

## ▶ Biographical Information

- **Codiscoverer** of the HIV-2 Virus
- **1<sup>st</sup> Award** of the African AIDS Society
- **Star Crystal Award** of the African American Institute
- **1<sup>st</sup> Award** of the French National Academy of Pharmacy
- **Excellence Award**, Republic of Senegal's Head of State
- Authored or co-authored 250 publications and 20 books
- **Member** of the Senegalese National Academy of Sciences
- **PhD** in Bacteriology-Virology, University of Tours, France



# Tatsuya Nakada, Japan

Professor of Physics, EPFL and Former Spokesperson, CERN



## ▶ Current Positions

- **Scientific Secretary**, European Strategy Session of the CERN Council
- **Chair**, European Strategy and Preparatory Groups
- **Professor of Physics**, École Polytechnique Fédérale de Lausanne

## ▶ Biographical Information

- Former **Spokesperson**, CERN LHCb
- Initiated plans to build a 'b factory' – a machine producing large numbers of B mesons - at the Swiss Institute for Nuclear Physics (SIN)
- **PhD** in Physics, Heidelberg



# Helga Nowotny, Austria

Former President, European Research Council



## ▶ Current Positions

- **Chair** of the ERA Council Forum Austria
- **Professor Emerita** of Social Studies of Science, ETH Zurich (Swiss Federal Institute of Technology)

## ▶ Biographical Information

- Former **President** of the European Research Council (2010-2013)
- Former **Chair** of the European Research Advisory Board of the European Commission from (2001-2006)
- **Member** of the Conseil scientifique de Institut d'Études Avancées de Paris
- **Member** of Academia Europaea
- **Member** of the Council for the Lindau Nobel Laureate Meetings
- **Member** of the Board of Reviewing Editors of Science Magazine
- **J.D. Bernal Prize** for her lifelong achievements in social studies of science.
- Various honorary degrees
- **Ph. D.** in Sociology at Columbia University

**NEXT  
EINSTEIN  
FORUM**





# Anne Petersen, USA

Professor of Human Growth and Development, University of Michigan



## ▶ Current Positions

- **Professor** of Human Growth and Development, University of Michigan
- **Founder/President** of Global Philanthropy Alliance

## ▶ Biographical Information

- Former **Senior Vice President** for Programs at the W.K. Kellogg Foundation of Battle Creek, Michigan
- Former **Deputy Director** of the National Science Foundation of the USA
- Former **Vice President** for research and dean of the Graduate School at the University of Minnesota
- Former **President** of the American Psychological Association
- **Founding Member** of the Society for Research on Adolescence
- **Jury** member for the Klaus J. Jacobs Research Prize
- **Ph. D.** in Measurement, Evaluation, and Statistical analysis



# Bernard Slippers, South Africa

Professor in Genetics and Former Co-Chair, Global Young Academy



## ▶ Current Positions

- **Professor** in Genetics at the University of Pretoria
- **Research Leader** of the Tree Protection Co-operative Programme at the Forestry and Agricultural Biotechnology Institute

## ▶ Biographical Information

- Former **Co-Chair**, Global Young Academy
- **Award** for outstanding doctoral research from the International Union of Forestry Research Organizations
- **President's Award** from the National Research Foundation in South Africa
- **Founding member** of the Global Young Academy in 2010
- **Founding member** of the South African Young Academy of Science in 2011
- **Ph.D.** in Plant Genetics from the University of Pretoria



# Adam Sneyd, Canada

Professor in Political Science, University of Guelph



## ▶ Current Positions

- **Professor** in Political Science and International Development Studies, University of Guelph

## ▶ Biographical Information

- **Teaching Award** for outstanding teaching, College of Social and Applied Human Sciences, University of Guelph in 2014
- **Principal Investigator**, Africa Initiative Research Grant
- **Ph.D.** in Political Science from McMaster University



# Mamadou Sy, Senegal

Professor of Applied Mathematics, University Gaston Berger



## ▶ Current Positions

- **Professor** of Applied Mathematics, University Gaston Berger, Senegal (since 2013)

## ▶ Biographical Information

- Held **Various** academic positions at the University of Gaston Berger, Senegal (2000 to 2013)
- **Various** scientific publications and conference participations
- **Ph.D.** in Applied Mathematics, University of Blaise Pascal, France and University Gaston Berger, Senegal (2005)



# Peter Tindemans, Netherlands

Secretary General of EuroScience



## ▶ Current Positions

- **Secretary General** of EuroScience (since 2012)
- **Director**, Global Knowledge Strategies & Partnerships (since 1999)

## ▶ Biographical Information

- Former **Chair** - European Spallation Source (2000-2010)
- Former **Chair** - OECD Megascience Forum (1992-1999)
- Former **Chair** - COSINE to establish first paneuropean data networking backbone (1986-1991)
- Former Programme Coordinator for Dutch Innovation Policy (1978-1979)
- Various functions in Department of Science Policy, Netherlands (1979-1991)
- Well known for his various contributions to science, technology and innovation policy in the Netherlands, Europe and globally
- **Ph.D.** in Theoretical Physics at Leiden University



# Klaus Töpfer, Germany

Executive Director, Institute for Advanced Sustainability Studies



## ▶ Current Positions

- **Founding Director and Current Executive Director** of the Institute for Advanced Sustainability Studies, Potsdam, Germany
- **Professor** of Environment and Sustainable Development at Tongji University, Shanghai (since 2007)

## ▶ Biographical Information

- Former **Executive Director** of the United Nations Environment Programme (UNEP) based in Nairobi (1998-2006)
- Former **Under-Secretary-General** of the United Nations (1998-2006)
- Held three **Ministerial** positions between 1985 and 1998 in Germany
- Federal Cross of Merit (1986)
- German Sustainability Award for his lifetime achievement in the field of sustainability (2008)
- **Ph.D.** in Regional Development and Location Decision, University of Münster (1968)

**NEXT  
EINSTEIN  
FORUM**



# Ingrid Wüning Tschol, Germany

Senior Vice President of Health and Science, Robert Bosch Stiftung



## ▶ Current Positions

- **Senior VP of Health and Science**, Robert Bosch Stiftung

## ▶ Biographical Information

- Former **Senior Scientific Secretary**, European Medical Research Councils
- Former **Programme Head**, Molecular and Cell Biology, Deutsche Forschungsgemeinschaft
- **Co-Founder**, EuroScienceOpenForum
- Numerous articles and invited interviews on science policy, science management and “science and society” issues
- Since 2007 Member of the Core Group of the “Lenkungsausschuss WiD”
- Since 2008 Member of the European Forum on Philanthropy in Research Funding
- Since 2008 Member of ERAB
- **PhD in Zoology**, University of Tuebingen

**NEXT  
EINSTEIN  
FORUM**



# Arnold van Zyl, South Africa

Rector of Chemnitz University of Technology



## ▶ Current Positions

- **Rector** of Chemnitz University of Technology, Germany (since 2012)

## ▶ Biographical Information

- Former **Vice-Rector** for Research and Innovation at the University of Stellenbosch (2008-2012)
- Held various leading positions in the R&D-sector of Daimler in Stuttgart, Ulm and Brussels (1990-2000)
- **Post-Doctoral Fellow** at the Max Planck Institute for Solid State Research in Stuttgart (1987-1990)
- **Honorary Professor** of Tongji University, China
- **Member** of the Academy of Science of South Africa
- **Ph.D.** in Engineering at the University of Cape Town (1987)