



## WHO'S WHO

*The 3rd Annual Conference of the  
Global Forum on Productivity*

*Firms, Workers and Disruptive Technologies:  
Ensuring Sustainable and Inclusive Growth*

June 28-29, 2018  
Ottawa, Canada



Innovation, Science and  
Economic Development Canada

Innovation, Sciences et  
Développement économique Canada





## SPEAKERS

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*Trevor Allibon*

*Dan Andrews*

*Anthony Arundel*

*Eric Bartelsman*

*Catherine Beaudry*

*Antonin Bergeaud*

*James Bessen*

*Joël Blit*

*Kris Boschmans*

*Alex Chernoff*

*Pierre Cl  roux*

*Jonathan Coppel*

*Carol Corrado*

*Chiara Criscuolo*

*Michelle d'Auray*

*Luiz de Mello*

*Ryan Decker*

*Josefine Diekhof*

*John Fernald*

*Kevin Fox*

*Darren Hannah*

*Michel Houdebine*

*William Janeway*

*Patrick Lenain*

*Dan Mawson*

*David McGovern*

*Frank Neffke*

*Avvey Peters*

*Dirk Pilat*

*Stefan Profit*

*Glenda Quintini*

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*Adolfo Rodr  guez-Vargas*

*  lvaro Santos Pereira*

*Sonia Sennik*

*Andrew Sharpe*

*Lawrence Schembri*

*Pierre Therrien*

*Christina Timiliotis*

*Mary Veronica Tov  ak Pleterski*

*Neil Turok*

*Elvira Uyarra*

*Michael Veall*

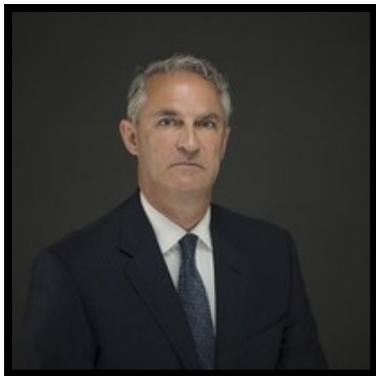
*Tara Vinodrai*

# The 3rd Annual Conference of the Global Forum on Productivity Speaker Biographies

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## INTRODUCTION

### David McGovern



David McGovern is an Associate Deputy Minister with Innovation, Science and Economic Development Canada. He joined the department in May 2017 and his addition reflects the Department's ambitious agenda of serving its three ministers in implementing the Innovation and Skills Plan. Prior to his most recent appointment, David was the Deputy National Security Advisor to the Prime Minister from January 2015 until May 2017. Previously, he served as Senior Advisor to the Privy Council Office, responsible for Border Action Plan Implementation and the Regulatory Cooperation Council starting in May 2014. David was the Senior Assistant Deputy Minister of Strategic Policy and Research at the department of Employment and Social Development Canada from 2011. He was a participant in the 2012 cohort of the Government of Canada's Advanced Leadership Program. From 2005 until 2011, David was the Assistant Deputy Minister of the International Affairs

Branch at Environment Canada. From 2003 until 2005, he supported the Secretary of the Treasury Board Secretariat (TBS) on several key files and led a series of horizontal and vertical expenditure management reviews. David also held executive positions in several other federal departments including the former department of Human Resources Development Canada (HRDC) and Transport Canada. He is a graduate from McGill University and has a Masters of Science degree in Economics from the London School of Economics and Political Science.

## Lawrence Schembri

Lawrence Schembri was appointed Deputy Governor of the Bank of Canada in 2013, serving as one of two deputy governors responsible for overseeing the Bank's analysis and activities to promote a stable and efficient financial system. In 2016, he became responsible for overseeing the Bank's analysis of domestic economic developments. As a member of the Bank's Governing Council, he shares responsibility for decisions with respect to monetary policy and financial system stability, and for setting the strategic direction of the Bank. Born in Toronto, Ontario, Mr. Schembri received a Bachelor of Commerce degree from the University of Toronto in 1979, a M.Sc. in Economics from the London School of Economics and Political Science in 1980, and a Ph.D. in Economics from the Massachusetts Institute of Technology in 1985. After completing his Ph.D., Mr. Schembri was an Assistant Professor and, later, Associate Professor of economics at Carleton University until 2001. Mr. Schembri joined the Bank in 1997 as a visiting Research Advisor in what is now the International Economic Analysis Department. In 2001, he was appointed Research Director in the same department and became Chief of the department in 2005. In 2010, he was appointed Advisor to the Governor, with responsibilities for financial stability analysis and coordinating the Bank's contribution to the Financial Stability Board. His published research has focused on exchange rate and monetary theory and policy in open economies, the international monetary system and financial stability.



## Álvaro Santos Pereira



Álvaro Santos Pereira is currently the Acting Chief Economist of the OECD. Since 1st April 2014 he is also the Director of the Country Studies Branch at the Economics Department where he oversees the peer review process for the Economic Surveys. He provides leadership in the co-ordination and management of the activities of the Directorate and ensures that it is at the forefront of the international political economy agenda. He identifies challenges and develops ways in which the OECD can promote policies to improve member and partner countries long-term Economic performance. Prior to joining the OECD, between June 2011 and July 2013, Mr. Pereira was Minister for Economy & Employment in Portugal, responsible for the areas of Industry, Commerce and Services, Tourism, Energy and Public Works, Transportation, and Employment. As the minister of one of the largest ministries in the Portuguese government, Mr. Pereira was in charge of a major program of economic and labor reforms. Prior to this, he was a professor of Economic Development and Economic Policy at Simon Fraser University in Canada, and a lecturer at the University of British Columbia in Canada and the University of York in the United Kingdom. Mr. Pereira published a number of academic books and papers among which "Portugal's Moment of Truth: New Economic Policy for Portugal (2011), The Fear of Failure: History and Economic Policy in Portugal (2009), and The Myths of the Portuguese Economy (2007), and was a columnist in various Portuguese Newspapers, such as the "Diário Económico". Mr. Pereira is a citizen of Portugal and Canada, holds a B.A. in Economics from the University of Coimbra, an MSc Economics from the University of Exeter and a Ph.D. in Economics from Simon Fraser University.

## **KEYNOTE: SETTING UP THE STAGE: EVOLUTION OF DISRUPTIVE TECHNOLOGIES: WHAT'S NEW?**

### **Eric Bartelsman**

Eric Bartelsman is a Professor of Economics and General Director at Tinbergen Institute. He holds a B.S. from MIT and a Ph.D. from Columbia University. Among his prior posts, he served as economist at the Federal Reserve Board in Washington DC, as advisor to CPB Netherlands, and as Head of Economic Research at the Ministry of Economic Affairs in the Netherlands. His research interests are in the area of productivity growth, both from a micro and macro vantage point, and have led to publications in top journals. Bartelsman is a fellow of the Tinbergen Institute and IZA Bonn.



## **PANEL 1: POLICY AND ECONOMIC IMPLICATIONS FROM NEW TECHNOLOGIES**

### **Dirk Pilat**



Dirk Pilat, a Dutch national, is Deputy Director of the OECD Directorate for Science, Technology and Innovation (STI). As Deputy Director, he supports the Director of STI in pursuing the Directorate's program of work and contributing to the achievement of the strategic goals of the Organisation as defined by the OECD Secretary-General. He joined the OECD in February 1994 and has worked on many policy issues since then, including the OECD Innovation Strategy and OECD Green Growth Strategy, how to draw greater benefits from information technology for economic growth, how to strengthen growth performance in OECD economies (the OECD Growth Project), how to strengthen the performance of the services sector, as well as work on climate change, labour markets, product market regulation, global value chains, productivity and entrepreneurship. He was Head of the Science and Technology Policy Division from 2006 to January 2009, with responsibility for the OECD's Committee for Scientific and Technological Policy, and Head of the Structural Policy Division, with responsibility for the OECD's Committee on Industry, Innovation and Entrepreneurship, from February 2009 to December 2012. Before joining the OECD, Mr. Pilat was a researcher at the University of Groningen, in the Netherlands, where he also earned his PhD in Economics.

### **Darren Hannah**

Darren Hannah has been Vice President, Finance, Risk and Prudential Policy at Canadian Bankers Association since February 2014. He leads the largest division in the Canadian Bankers Association, responsible for strategic direction, public policy formulation, and advocacy on prudential regulation and reporting, risk management, payments and technology, taxation, commercial lending, real estate finance, and financial sector competition. Darren Hannah has provided expert witness testimony before numerous House of Commons and Senate Committees on issues related to banking and financial services.



## Avvey Peters



Avvey Peters is Chief Strategy Officer at Communitech, a Waterloo, Canada-based, public-private innovation hub that supports a community of more than 1,400 companies — from startups to scale-ups to large global players. Avvey is also cross appointed as managing Director of the Canadian Digital Media Network, a group of 26 innovation hubs across Canada, which focus on supporting the growth and success of small and mid-sized digital companies across the country. Before joining Communitech in 2007, Avvey spent seven years working in external relations at the University of Waterloo, where she held various roles, including senior director of government relations, associate director of communications and public affairs, and speechwriter and strategic communications officer for the president of the University. She has also worked as the news writer for CTV Southwestern Ontario. Avvey is a former executive director of the Business & Education Partnership of Waterloo Region, a charitable organization that connects youth to careers, with particular emphasis on science, technology, engineering, and mathematics. She is a member of the boards of directors of Junior Achievement Waterloo Region, Wavefront, and the Technology Councils of North America. Avvey holds a Masters of journalism from Carleton University in Ottawa, and a degree in Rhetoric and Professional Writing from the University of Waterloo. She has also completed the Ivey Executive Program at the Richard Ivey School of Business.

## PARALLEL SESSION 1: STRUCTURAL CHANGES

### Chiara Criscuolo

Chiara Criscuolo leads the productivity, enterprise dynamics and policy evaluation work of the Directorate for Science Technology and Innovation (STI), including its forefront cross-country microdata projects. Prior to joining OECD, she was at the London School of Economics. She holds a Ph.D. in Economics from University College London and her work features in leading outlets, including the *American Economic Review*.



### Ryan Decker



Ryan Decker has been an Economist at the Federal Reserve Board of Governors, since 2015. His research focuses on entrepreneurship, firm dynamics, and macroeconomics. He has been an Adjunct Professor at the University of Maryland College Park since 2016 and prior to that, an Economist at the Center for Economic Studies at the U.S. Census Bureau. Ryan Decker received his Ph.D. in Economics and M.A. in Economics from the University of Maryland and his B.S. in Economics / Political Science from Brigham Young University.

## Alex Chernoff



Alex Chernoff is a Senior Economist in the International Economic Analysis Department at the Bank of Canada. His research interests include applied econometrics, applied microeconomics, international trade, economic history, agricultural economics, and urban economics. Alex Chernoff received his Ph.D. in Economics from Queen's University.

## Josefine Diekhof

Josefine Diekhof is an Economist at the Centre for European Economic Research ("ZEW"). After completing a degree in business administration in 2012, Josefine Diekhof undertook her doctoral studies in economics at the graduate college 'The Economics of Innovative Change', hosted by the Max Planck Institute of Economics and the Friedrich Schiller University Jena. In her Ph.D. thesis, she focused on research areas related to entrepreneurial and innovative activities as well as international trade and sustainable transitions. Considering the context of radical and sustainable change, she analyzed technology-specific responses of established firms to the activity of innovative entrants in the automotive industry. Throughout her research stay at the World Bank in Mexico (2015–2016), she furthermore investigated the relevancy of different firm characteristics when considering the effect of foreign market expansions on changes in firm performance. Over the course of her academic career, Josefine Diekhof has gained experience working on inter-disciplinary projects at the interface of science, private business, and policy. She has, for instance, conducted studies for Siemens and the Fraunhofer IOF with the objective of identifying new market potentials for innovative technologies. As a supervisory board member of an energy cooperative, she performed profitability analyses and supported the development of new strategic areas while collaborating with professionals from the solar industry, utility companies, and local governments.



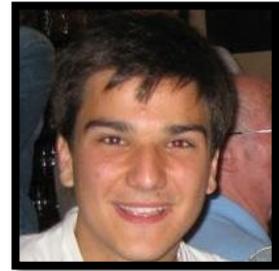
## Michael Veall



Michael Veall is a Professor of Economics at McMaster University. He received his Ph.D. from the Massachusetts Institute of Technology and has taught at the University of Western Ontario, the University of Mannheim, Australian National University and Queen's University. He has been a von Humboldt fellow at the University of Munich and an honorary professor at the University of York. He was President of the Canadian Economics Association in 2011-12. Currently he is Director and Principal Investigator of the Productivity Partnership, a research group funded by a Social Sciences and Humanities Research Council of Canada Partnership Grant and is Academic Director of the McMaster Statistics Canada Research Data Centre, the host centre for the Canadian Research Data Centre Network. He edits the journal *Canadian Public Policy/Analyse de politiques*.

## Antonin Bergeaud

Antonin Bergeaud is an economist with the Banque de France since 2017, where he was also a junior economist from September 2014 - June 2015. His research interests focus on innovation and productivity. More specifically, his research considers the link between innovation and inequalities, the trends of economic growth in the long-run and the future of productivity growth. Antonin Bergeaud obtained his Ph.D., Economics, at the London School of Economics.



## Janna Remes



Jaana Remes is an economist and a partner at the McKinsey Global Institute (MGI), McKinsey & Company's business and economics research arm, based in San Francisco. Since 2003, Dr. Remes has led MGI's research on productivity, urbanization, competitiveness, and growth. Her most recent research looks at productivity and global growth prospects in an era of demographic decline. Jaana leads MGI's Urban World research series that has examined the shifting economic power of cities, the rising urban consuming class, the global company landscape, and shifting urban demographics, as well as the patterns of urban growth and renewal across the Americas. Her long-term research interests also include analyses of how different policies have contributed to industry competitiveness and growth; the impact of multinational companies on emerging economies; and in-depth assessments of the

barriers to competitiveness and growth across a range of economies, including the U.S., Mexico, Brazil, Canada, U.K., Finland, Sweden, and South Korea. She has also led MGI's research on energy, with a focus on understanding the microeconomic underpinnings of global energy demand and the opportunity to reduce energy consumption through higher energy productivity. She is a member of OECD's Science, Technology, and Innovation Directorate's advisory group and a nonresident senior fellow at both the Metropolitan Policy Program at the Brookings Institution and the Strategic Foresight Initiative of the Atlantic Council.

## James Bessen

James Bessen, an economist, serves as Executive Director of the Technology & Policy Research Initiative at Boston University School of Law. Mr. Bessen has done research on whether patents promote innovation, why innovators share new knowledge, and how technology affects jobs, skills, and wages. With Michael J. Meurer, Bessen wrote *Patent Failure* (Princeton University Press, 2008), highlighting the problems caused by poorly defined property rights. His research first documented the large economic damage caused by patent trolls and showed the link between information technology and job growth. His latest book, *Learning by Doing: The Real Connection Between Innovation, Wages, and Wealth* (Yale University Press, 2015), looks at history to understand how new technologies affect wages and skills today. Bessen's work has been widely cited in the press as well as by the White House, the U.S. Supreme Court, judges at the Court of Appeals for the Federal Circuit, and the Federal Trade Commission. In 1983, Bessen developed the first commercially successful "what-you-see-is-what-you-get" PC publishing program, founding a company that delivered PC-based publishing systems to high-end commercial publishers.



## PARALLEL SESSION 2: TECHNOLOGY AND INSTITUTIONS

### Stefan Profit



Stefan Profit holds the position of Deputy Director General in the Economic Policy Department of the German Federal Ministry of Economic Affairs and Energy. His directorate deals with macroeconomic developments, economic analyses and projections. Before assuming this position, he was in charge of a unit focusing on the empirical research in the field of inclusive growth, productivity and investment, as well as assessing growth and distributional effects of structural reforms. During previous assignments in the ministry, he worked in the field of labour market reform and energy policy, foreign economic affairs, policy planning, and served as a personal advisor to the Minister. Previous to his engagement within the federal government he worked for the Bertelsmann Foundation. He has an academic background in labor economics holding a doctoral degree in Economics from Humboldt University Berlin.

### Sonia Sennik

Sonia Sennik is the Executive Director, Creative Destruction Lab. Having spent nearly a decade managing large-scale capital projects (up to \$500M) at a leading global engineering firm, Sonia is well-established in leading diverse groups to ambitious ends and interdisciplinary teams of professionals working on multiple, complex projects. Her particular areas of interest include finessing workplace culture, mentoring future leaders, and actualizing the potential of their ideas. Sonia has been the head coach of Rugby Ontario Senior Women's Team since 2016. The team, under Sonia's leadership, won gold at the 2017 Canadian Rugby Championships. This established Sonia as the first female head coach to win gold at the Canadian Rugby Championships. Sonia is a co-owner at SWAT Health, a multidisciplinary fitness and wellness facility based in the GTA, and is a member of the board of directors for ParticipACTION. Sonia is a graduate of the M.B.A. program at Rotman School of Management and was the first-ever recipient of the Rotman Social Impact Award. She also holds a B.Eng. degree from McMaster University.



### Anthony Arundel



Anthony Arundel is a Professorial Fellow at UNU-MERIT at Maastricht University in the Netherlands and an adjunct Professor at the Tasmanian School of Business and Economics at the University of Tasmania in Australia. He specializes in the design, implementation, and analysis of innovation surveys in both the business and government sectors. His current research interests include questionnaire design and methodology, environmental issues, intellectual property rights, public sector innovation, the use of co-creation and design thinking as innovation methodologies, and knowledge flows from public research to firms.

## Christina Timiliotis

Christina Timiliotis is an economist in the Policy Studies Branch of the Department on Economics at the OECD. Her research focuses on the productivity-digitalisation nexus and the linkages between monetary policy and productivity. Previously, she worked in the Directorate of Trade and Agriculture on issues related to trade and environment, specifically on fossil-fuel subsidies and trade in environmental goods and services. Christina holds a M.Sc. in Empirical and Theoretical Economics from the Paris School of Economics.



## Pierre Therrien



Pierre Therrien is Director, Innovation Economics and Market Analysis at Innovation, Science and Economic Development Canada (formerly known as Industry Canada). He is in charge of economic research in the fields of innovation, firm dynamics and competition in the Canadian economy. Over the past 15 years, Mr. Therrien held various positions within ISED where he led several research projects related to factors leading to business innovation, competition in the telecommunications sector as well as on innovation-related program impact assessments. Mr. Therrien also held positions outside of the Government of Canada including at the Organisation of Economic and Co-operation Development (OECD) as well as at the Centre for Interuniversity Research and Analysis of Organizations (CIRANO), an economic research centre based in Montreal, Québec, where he started his career.

## Mary Veronica Tovšak Pleterski

Ms. Tovšak Pleterski holds the position of Director for European and International Carbon Markets at DG for Climate Action of the European Commission. Previously, she held a position of the Deputy Permanent Representative in the Permanent Representation of Slovenia to the EU. In this capacity she also chaired the COREPER1 (committee of deputy permanent representatives) during the Slovenian Presidency of the EU. Her considerable experience in multilateral diplomacy was gained during her posts as a Counsellor at the Mission of Slovenia to the United Nations in New York and during her four year-long appointment at the Permanent Representation of Slovenia to the Council of Europe in Strasbourg. Ms. Tovšak Pleterski holds a Master's degree in International Affairs from Columbia University, School of International and Public Affairs (New York) and a Master's of Arts degree in European Studies from Katholieke Universiteit in Leuven (Belgium). Earlier, she had acquired a degree of a Bachelor of Science in Computer Sciences at the University of Maribor, Slovenia.



## Jonathan Coppel



Jonathan Coppel was appointed as a full-time Commissioner with the Government of Australia's Productivity Commission in July 2011. Jonathan is an economist with extensive international and domestic experience advising governments on macroeconomic, investment, energy, social, environmental and regulatory policy. Prior to his appointment, Jonathan was Head of the OECD G20 Sherpa office. During his OECD career he held senior roles as Counsellor to the Chief Economist, Executive Manager of the NEPAD-OECD Africa Investment Initiative, Head of the EU and UK Desks and analyst at the International Energy Agency. In Australia he has held senior management positions at the Reserve Bank and started his career at the Commonwealth Treasury. Jonathan has taught at the World Trade Institute's Mile Masters Programme in International Law and Economics and the Paris, Sciences Po Institute. While overseas he established and was a director of *Cafe Oz*, the first Australian bar in Paris. Jonathan has a Masters in Economics and Management from

Columbia University, New York, a Bachelor in Economics (Honours) from the Australian National University and is a graduate of the Australian Institute of Company Directors. Jonathan is currently working on the Horizontal Fiscal Equalisation inquiry and is overseeing a research project on Trends in Inequality.

## Patrick Lenain

Patrick Lenain is Assistant Director and Head of Division in the Economics Department of the OECD, who leads a team of OECD economists who provide economic advice to the governments of Australia, Costa Rica, Iceland, Mexico, Norway and United States. This advice is based on empirical research and econometric tools applied to households and firm-level surveys and uses administrative tax and social records. He is also an Adjunct Professor of Economics at Université de Paris-Est, where he teaches macroeconomic policy and research methodology. Before joining the OECD, he had a career of 15 years at the IMF. He has also served as senior advisor to the French Treasury and the European Commission.



## WELCOMING REMARKS FOR THE OFFICIAL CONFERENCE DINNER

### Michelle d'Auray



Ms. d'Auray has broad and varied experience in government, with over 10 years as a Deputy Minister. Prior to her appointment as Canada's Ambassador, Permanent Representative to the OECD, Ms. d'Auray was the Deputy Minister of Public Works and Government Services Canada, from 2012 to 2015. This department is the Government of Canada's principal procurement and real estate and asset management organization, including military procurement and the responsibility for the government's Defence Procurement Strategy, which she developed and implemented. From 2009 to 2012, she served as the first woman Secretary to the Treasury Board, where she was responsible for the Government's overall expenditure management system, and oversaw the one-year comprehensive expenditure review for the Government of Canada which led to savings of over CAN \$6 billion in operations. Ms. d'Auray was the first Chief Human Resources Officer for the Government of Canada, establishing the Office and role in 2009. From 2007 to 2009, she was the first woman Deputy Minister at Fisheries and Oceans Canada; and from 2004-2007, she was President of the Economic Development Agency of Canada for the Regions of Québec.

Ms. d'Auray started her professional career as the head of Canada's then-largest advocacy organization for cultural industries and the arts, from 1985 to 1989. She started her career in the Government of Canada's public service in 1990 at the National Film Board of Canada as director of Corporate Affairs, Distribution and Communications.

From 1994 to 1996, she headed the Privy Council of Canada's Intergovernmental Communications Secretariat and from 1996 to 1997 was director general of communications for Industry Canada. In 1998, she headed the Government of Canada's Task Force on Electronic Commerce at Industry Canada and was responsible for the organization in Canada of the 1998 OECD Ministerial Conference on Electronic Commerce. This was followed by positions at Canadian Heritage as assistant deputy minister of strategic management (1999 to 2000) and at Treasury Board of Canada Secretariat as the Government's Chief Information Officer (2000 to 2004), where she headed the Government of Canada's on-line initiative that made Canada a world leader in electronic service delivery.

Ms. d'Auray was appointed Ambassador, Permanent Representative of Canada to the Organisation for Economic Co-Operation and Development, in Paris, on January 21, 2015.

## KEYNOTE SPEAKER FOR THE OFFICIAL CONFERENCE DINNER

### Neil Turok



Neil Turok (Ph.D., Imperial College London, 1983) is the Director of the Perimeter Institute for Theoretical Physics in Waterloo, Ontario, Canada. Previously, he was Professor of Physics at Princeton University and Chair of Mathematical Physics at the University of Cambridge before assuming his current position as Director of Perimeter Institute in 2008. In 2013 he was re-appointed for a second term and additionally awarded the Mike and Ophelia Lazaridis Niels Bohr Chair at the institute.

Turok's research focuses on developing fundamental theories of cosmology and new observational tests. His predictions for the correlations of the polarization and temperature of the cosmic background radiation (CBR) and of the galaxy-CBR correlations induced by dark energy have been recently confirmed. With Stephen Hawking, he discovered instanton solutions describing the birth of inflationary universes. His work on open inflation forms the basis of the widely discussed multiverse paradigm. With Paul Steinhardt, he developed an alternative, cyclic model for cosmology, whose predictions are so far in agreement with all

observational tests.

Among his many honours, Turok was awarded Sloan and Packard Fellowships and the James Clerk Maxwell medal of the Institute of Physics (U.K.). He is a Canadian Institute for Advanced Research (CIFAR) Fellow in Cosmology and Gravity and a Senior Fellow of Massey College in the University of Toronto. In 2012, Turok was selected to deliver the CBC Massey Lectures, broadcast across Canada. The lectures were published as *The Universe Within*, a bestseller which won the 2013 Lane Anderson award, Canada's top prize for popular science writing.

Born in South Africa, Turok founded the African Institute for Mathematical Sciences (AIMS) in Cape Town in 2003. AIMS has since expanded to a network of six centres – in South Africa, Senegal, Ghana, Cameroon, Tanzania, and Rwanda – and has become Africa's most renowned institution for postgraduate training in mathematical science. For his scientific discoveries and his work founding and developing AIMS, Turok was awarded a TED Prize in 2008. He has also been recognized with awards from the World Summit on Innovation and Entrepreneurship (WSIE) and the World Innovation Summit on Education (WISE). In 2016 he was named the Gerald Whitrow Lecturer by the Royal Astronomical Society and was also awarded the John Torrence Tate Medal for International Leadership in Physics by the American Institute of Physics. In the same year, he was made an Honorary Fellow of the Institute of Physics in the United Kingdom and was awarded the John Wheatley Award from the American Physical Society for his work with AIMS.

## PARALLEL SESSION 3: INTANGIBLES, SKILLS AND DISRUPTIVE TECHNOLOGIES

### Adolfo Rodríguez-Vargas

Adolfo Rodríguez-Vargas has worked for the Central Bank of Costa Rica since 1999, first at the Department of Macroeconomic Statistics and currently as an economist at the Department of Economic Research. His interests include monetary and exchange rate policies in small-open economies, inflation dynamics, forecasting, and general equilibrium models. Since 2007 he is also a professor of econometrics at the School of Economics of the University of Costa Rica.



### Catherine Beaudry



Catherine Beaudry, Rhodes Scholar, has a Ph.D. in economics from the University of Oxford. She is a Professor at the Mathematics and Industrial Engineering Department of Polytechnique Montréal where she also holds a Tier I Canada Research Chair (CRC) on the Creation, development and commercialisation of innovation (Innovation Chair). She is a member of the Centre for Interuniversity Research on Science and Technology (CIRST), fellow of the Centre for Interuniversity Research on the analysis of organizations (CIRANO), adjunct professor at UQAM and founding member of the Global Young Academy. The studies undertaken by the Innovation Chair is centered around measuring the impact of research and collaboration on the development and commercialisation of innovation, as well as on the interaction between local and international networks. This research aims to consider the entire innovation process,

from the idea generation to commercialisation and to break down the silos in the innovation process. Her research examines partnerships, networks and collaboration between university researchers, firms and government organisations.

### Tara Vinodrai

Tara Vinodrai is an Associate Professor at the Department of Geography and Environmental Management of the University of Waterloo. Her appointment is joint with the School of Environment, Enterprise and Development. She is also an assistant director of the Economic Development Program and the director of the Master of Economic Development and Innovation Program. Her research program focuses on a concern with understanding and theorizing the dynamics of contemporary economic change and the emerging and evolving geographies of the knowledge-based economy. Her research is highly interdisciplinary in scope drawing on the social sciences, and innovation, organizational and management studies.



## Elvira Uyarra



Elvira Uyarra is Reader in Innovation Policy and Strategy at Alliance Manchester Business School (University of Manchester) where she is also director of the Manchester Institute of Innovation Research and program director of the MSc in Innovation Management and Entrepreneurship. She is also visiting professor at the Mohn Center of Innovation and Regional Development at the University of Western Norway. Elvira's research activities center on: regional science and innovation policy; spatial dimensions of knowledge and innovation; evolutionary approaches to public policy, universities and regional development, and the innovation impact of public procurement.

She has conducted research and consultancy activities funded by the UK ESRC, the European Commission, IADB, OECD, NESTA and national and local government agencies in the UK and internationally. Her work has been published in leading journals in geography, innovation studies and management, including *Research Policy*, *Technovation*, *Regional Studies*, *TASM*, *Research Evaluation*, *Technological Forecasting and Social Change*, *European Planning Studies*, *Environment & Planning C* and the *Journal of Evolutionary Economics*.

## Michel Houdebine

Michel Houdebine has been Chief Economist in the French Treasury Branch since September 2015. Before that, he was successively Assistant Director of European Affairs, then Chief of the Public Policy Unit within the same branch. Michel Houdebine, a *polytechnicien* and graduate of ENSAE, started his career at INSEE in 1995, then joined the Forecasting Branch in 1999, where he was in charge of medium-term public financial forecasting. In 2001-2002, he was assigned to the External Economic Relations Branch (DREE), where he served as chief of the "Exchange and Investment" Office. He joined the Treasury Branch in 2004, where he served successively as economic advisor to the Director of the Treasury, Chief of the "International Macroeconomic Analysis" Office and, concurrently, as General Secretary of the National Economic Commission and the Annual Economic Conference (2006-2008).



## Frank Neffke



Frank Neffke is a Senior Research Fellow at the Center for International Development's Growth Lab at Harvard University. He joined the team in 2012. His research focuses on how economic actors diversify from one productive activity to another. Central in this research is that activities can be more or less similar in terms of the capabilities or skills they require. This similarity is shown to affect diversification processes throughout the economy, ranging from individuals' career paths and corporate diversification strategies, to structural change in regional and national economies. Before joining the CID, Frank worked as an assistant professor at the Erasmus School of Economics in Rotterdam, The Netherlands. He holds a Ph.D. in Economic Geography from Utrecht University and Master degrees in Econometrics and Philosophy from the University of Amsterdam.

## Glenda Quintini

Glenda Quintini is a senior economist at OECD, overseeing the work on skills carried out by the Employment Labour and Social Affairs Directorate. As part of the research programme on skills, Ms. Quintini has devoted a lot of attention to issues of skills mismatch, skills use at work and work-based learning. In previous roles at the OECD, she has done extensive work on youth and contributed to the Jobs for Youth series focusing on school-to-work transitions and the difficulties faced by youth in the labour market in 16 OECD countries. She has also worked on the link between labour market institutions and employment outcomes and on make work pay policies. Before joining the OECD, Ms. Quintini worked at Credit Suisse First Boston and at the Centre for Economic Performance (CEP) of the London School of Economics. While at CEP, she published a number of papers on job insecurity, public sector pay, nominal wage rigidity, the wage curve and labour market institutions in well-known economic journals. Ms. Quintini holds a Ph.D. in Economics from the University of Oxford and an M.A. in Economics from the University of Essex.



## Joël Blit



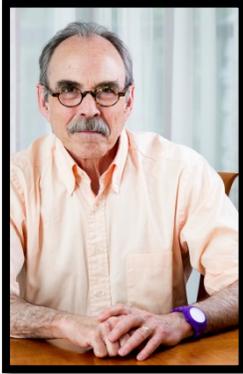
Joël is an Associate Professor of Economics at the University of Waterloo (UW). He holds a Ph.D. in international economics from the University of Toronto, an M.A. in economics from the University of Western Ontario, an M.B.A. from INSEAD, an M.Sc. in computer engineering from the University of Waterloo and a B.Sc. in engineering science from the University of Toronto. Prior to joining UW, Joël was an assistant professor of economics and international affairs at the Elliott School of International Affairs at George Washington University, in Washington, DC. He has extensive experience in the private sector where, as a consultant, he worked in the Canadian, Australian and Asian banking industries, providing high-level strategic advice on various operational, sales and change management projects. He has formulated the strategy for a US\$100 million start-up, and has provided expert testimony and advisory services to the online music industry. Joël was also on the advisory board of the Creative Destruction Lab, a pre-eminent accelerator for high-tech ventures. He is the recipient of numerous awards, research grants and distinctions. His dissertation was a finalist for the Barry M. Richman Best Dissertation Award in International Business. Among others, he has received a SSHRC CGS Doctoral Scholarship, an NBER Innovation Policy Research Grant, an INET-CIGI grant, and a SSHRC IDG Grant.

## Pierre Cléroux

Pierre Cléroux was appointed Vice President, Research and Chief Economist at the Business Development Bank of Canada (BDC) in 2012. Pierre leads a team of experts who analyze economic data to identify business and sector trends impacting Canadian entrepreneurs. A seasoned speaker, he regularly travels across the country to help business owners understand the risks and opportunities presented by the economic environment. Over his 25-year career as an economist, he has held several influential positions that had a direct impact on entrepreneurs in Canada and abroad. Before joining BDC, Pierre worked for the Government of Saudi Arabia as Vice President, Business Analysis in the National Industry Clusters Development Program. Previously, Mr. Cléroux was the Quebec Assistant Deputy Minister for Economic Development, Innovation and Export Trade. He was also a strategic advisor for Montreal International, and worked for 12 years at the Canadian Federation of Independent Business in various roles, including economist and Quebec Vice President. He holds a Bachelor of Arts and a Master's degree in Economics from Laval University, as well as an M.B.A. from the MIT Sloan School of Management.



## William Janeway



William H. Janeway is a Senior Advisor and Managing Director of Warburg Pincus. Previously, he was executive vice president and director at Eberstadt Fleming. Dr. Janeway is a director of Magnet Systems, Nuance Communications, and O'Reilly Media. He is an affiliated member of the Faculty of Economics at Cambridge University. Dr. Janeway is also a member of the board of directors of the Social Science Research Council and of the Field Institute for Research in the Mathematical Sciences and the board of governors of the Institute for New Economic Thinking and of the Advisory Board of the Princeton Bendheim Center for Finance. He is a member of the management committee of the Cambridge-INET Institute, University of Cambridge and a Member of the Board of Managers of the Cambridge Endowment for Research in Finance (CERF). Dr. Janeway received his doctorate in economics from Cambridge University where he was a Marshall Scholar. He was valedictorian of the class of 1965 at Princeton University.

## Trevor Allibon

Trevor Allibon is Managing Director, Growth & Transition Capital in BDC's Ottawa West office. For over 21 years at BDC, Trevor has spent most of his career working with entrepreneurs across Ontario in communities such as Ottawa, Kitchener-Waterloo and London. Over the years, he has developed a particular expertise in the technology sector, maintaining a vibrant network among smaller entrants to well established industry leaders. A sincere advocate for assisting entrepreneurs with their strategic objectives via growth capital and value added introductions, Trevor dedicates himself and his team to understanding clients' needs and helping them maximize their goals. Trevor is certified from both the Canadian Institute of Chartered Business Valuators and the Chartered Financial Analyst Institute and holds an HBA from Wilfrid Laurier University.



## Kris Boschmans



Kris Boschmans works as a policy analyst for the Centre for Entrepreneurship, Centre for Entrepreneurship, SMEs, Regions and Cities at the OECD. He joined the organisation in 2014 and is responsible for the "Financing SME and Entrepreneurs" project, an annual OECD flagship publication, which gathers and analyses data on SME finance and relevant policies from 43 countries. He also contributed to several OECD reports, mostly on issues related to financing of small businesses including a forthcoming study titled "Fostering the use of Intangibles to strengthen SME access to finance." Previously, Kris worked as an expert on SME finance and broader entrepreneurship issues for the Belgian government and private sector organisations. He holds an MBA from the Catholic University of Leuven, Belgium, and a PhD in applied economics from the University of Antwerp, Belgium.

## PANEL 2: WHAT DO WE KNOW ABOUT THE PRODUCTIVITY SLOWDOWN?

### Andrew Sharpe

Andrew Sharpe is founder and Executive Director of the Ottawa-based Centre for the Study of Living Standards (CSLS). Established in 1995, CSLS is a national, independent, non-profit research organization whose main objective is to study trends and determinants of productivity, living standards and economic well-being. He has held a variety of earlier positions, including Head of Research at the Canadian Labour Market and Productivity Centre and Chief, Business Sector Analysis at the Department of Finance. He holds a M.A. and Ph.D. in economics from McGill University, a maitrise in urban geography from the Université de Paris-Sorbonne, and a B.A. from the University of Toronto. He is also founder and Editor of the International Productivity Monitor, co-developer (with Lars Osberg) of the composite Index of Economic Well-being, a consultant to the World Bank on labor market issues, and Executive Director of the International Association for Research on Income and Wealth, an international research association dedicated to the advancement of knowledge relating to income and wealth.



### John Fernald



John Fernald is the Schrodgers Chaired Professor of European Competitiveness and Reform and a Professor of Economics at INSEAD. He is also a senior research adviser for international economics at the Federal Reserve Bank of San Francisco (on leave after August 2017). Mr. Fernald's research focuses primarily on applied macroeconomics, U.S. and global productivity trends, and emerging Asia. At the San Francisco Federal Reserve, Mr. Fernald previously served as vice president and team leader for the macroeconomics research group. Mr. Fernald has also served at the Federal Reserve Bank of Chicago, the Board of Governors of the Federal Reserve System (where he was the desk officer for China, Hong Kong, and Taiwan), and as senior economist for international economics at the US President's Council of

Economic Advisers. He has taught macroeconomics at the University of Michigan and the University of Chicago's Booth School of Business as well as at INSEAD Business School. Mr. Fernald received A.B. and Ph.D. degrees in economics from Harvard University and an M.Sc. degree in economics from the London School of Economics.

## Carol Corrado

Carol Corrado is Senior Advisor and Research Director in Economics at The Conference Board, where her primary focus is measuring intangible capital and analyzing innovation and economic growth. She coauthored key papers on the macroeconomic analysis of intangible investment and capital, including one that won the International Association of Research on Income and Wealth's 2010 Kendrick Prize ("Intangible Capital and U.S. Economic Growth") and one that appears in *Measuring Capital in the New Economy* (University of Chicago Press, 2005), a volume she co-edited. In addition to her work for The Conference Board, Carol Corrado is senior scholar at Georgetown University McDonough School's Center for Business and Public Policy, a member of the Technical Advisory Committee of the U.S. Bureau of Labor Statistics, a member of the executive committee of the National Bureau of Economic Research's (NBER) Conference on Research on Income and Wealth, and current chair-elect of the Business and Economics Section of the American Statistical Association.



## Kevin Fox



Kevin Fox is a Professor and Director of Centre for Applied Economic Research (CAER) at the UNSW Business School, University of New South Wales. He works primarily in the field of economic measurement, with a focus on productivity and prices. He joined the School in 1994 and served as Head of School for five years, 2008-2012. He was appointed as an Advisor to the Australian Treasury in 2016, chaired the 16th Series CPI Review Advisory Group in 2009-2010, and was a member of the Expert Working Group of the Australian Council of Learned Academies on productivity 2012-2014 that reported to the Prime Minister's Science, Engineering and Innovation Council. He is a member of the Australian Bureau of Statistics Methodology Advisory

Committee and the Productivity Measurement Reference Group. He is an Associate Editor of the *Journal of Productivity Analysis*, and leads the UNSW Business School's Real Estate Initiative. After studying Japanese in Tokyo for two years, he studied economics at the University of Canterbury and the University of British Columbia. He is a Fellow of the Academy of the Social Sciences in Australia, Fellow of the Society for Economic Measurement, and a Member of the NBER-affiliated U.S. Conference in Research on Income and Wealth. He is an elected member of the Australasian Standing Committee of the Econometric Society, and an elected member of the Council of the International Association for Research in Income and Wealth. He has been awarded six ARC Linkage grants and four ARC Discovery grants, totaling more than \$4 million.

## Luiz de Mello

Luiz de Mello is Director of the Policy Studies Branch in the Economics Department of the OECD. Together with the policy studies teams, Mr. de Mello provides leadership and strategic direction within the economics department, ensuring the design and implementation of analysis and policies which promote stronger, cleaner, fairer and more inclusive economic growth for member and partner countries. Structural policy surveillance, short and long term economic outlooks, public finance and macroeconomic policy analysis are among the key workstreams for policy studies. Earlier in his career, Mr. de Mello held senior positions at the OECD, including Deputy-Director of the Public Governance Directorate and Chief of Staff and Counsellor to the Chief Economist. Prior to joining the OECD, he worked as a Senior Economist at the Fiscal Affairs Department of the International Monetary Fund, and as a Lecturer at the Economics Department of the University of Kent, United Kingdom. He holds a PhD in Economics from the University of Kent, United Kingdom.



## Dan Andrews



Dan Andrews is Chief Advisor in the new Structural Reform Group of the Australian Treasury. He is responsible for deepening the understanding of Australia's productivity challenge and providing advice to the Australian government on productivity-enhancing structural reforms. Before joining the Treasury, Dan held the position of Deputy Head of the Structural Policy Analysis Division and was the leader of the Productivity Workstream in the OECD Economics Department. His research has focused on exploiting micro-data to assess the causes of the global productivity slowdown and the impact of structural reforms on growth. With an academic background in economics, he also holds a Masters in Public Administration from Harvard University.

## Dan Mawson

Dan Mawson leads the economy team in the Department for Business, Energy and Industrial Strategy (BEIS) in the United Kingdom; where he has been responsible for the department's analysis on growth and productivity since 2012. Prior to that he worked for over a decade in a range of posts across the UK government, covering areas such as the country risk analysis, the economics of globalisation, industrial policy and government procurement. His Ph.D. explored the channels through which improved labour market efficiency can drive economic growth through its interaction with human capital investments.

