# The National Academies of

# SCIENCES · ENGINEERING · MEDICINE

# Innovation Policy Forum

## Innovation, Global Value Chains, and Globalization Measurement

May 5-7, 2021

Via Zoom



All Times are USA Eastern Time (EDT)

### DAY 1: Wednesday – May 5, 2021 Via Zoom

10:00 AM Welcome

Susan Helper, Case Western Reserve University (Co-chair\*) Wolfgang Keller, University of Colorado (Co-chair\*)

10:15 AM Paper: Multinational Firms and Global Innovation

Anna Gumpert (LMU Munich), Kalina Manova (University College London), Cristina Rujan (Max Planck Institute), Monika Schnitzer (LMU Munich)

Moderator: Justin R. Pierce, Federal Reserve Board\*

**Discussant:** Allison Derrick, U.S. Bureau of Economic Analysis

11:05 AM Paper: Tracing Value Added in the Presence of Multinational Firms: with an Applications to High Tech Sectors

Zhi Wang (George Mason University); *Shang-Jin Wei (Columbia Business School, NBER, CEPR)*; Xinding Yu (University of International Business and Economics); and Kunfu Zhu (Renmin University)

**Moderator:** Sally Thompson, U.S. Bureau of Economic Analysis (retired)\* **Discussant:** *Thomas F. Howells III, U.S. Bureau of Economic Analysis* 

11:55 AM Break

<sup>\*</sup> Member of the Planning Committee

# 12:15 PM Paper: Trade in services, intangible capital, and the profit-shifting hypothesis

Nadia Accoto, Stefano Federico, and *Giacomo Oddo* (Bank of Italy)

**Moderator:** Nadim Ahmad, Organisation of Economic Co-operation

and Development\*

**Discussant:** James Hines, University of Michigan

### 1:05 PM Paper: Talent, Geography, and Offshore R&D

Jingting Fan (Penn State University)

Moderator: Eduardo Morales, Princeton University\*

Discussant: Gary Lyn, Iowa State University

#### 1:55 PM Break

# 2:15 PM Paper: The Nature and Direction of Innovation in Global Value Chains for Wind Energy Technologies

Kavita Surana (University of Maryland, College Park), Claudia Doblinger (Technical University of Munich), Deyu Li (University of Cambridge), Nathan Hultman (University of Maryland, College Park), Laura Diaz Anadon (University of Cambridge)

**Moderator:** Eduardo Morales, Princeton University\* **Discussant:** *Kelly Sims Gallagher, Tufts University\** 

# 3:05 PM Paper: Governing Global Value Chains: Evidence from Automotive Trade Data

Susan Helper (Case Western Reserve University)\* and Abdul Munasib (U.S. Bureau of Economic Analysis)

**Moderator:** Wolfgang Keller, University of Colorado (Co-chair\*)

**Discussant:** Davin Chor, Dartmouth College\*

#### 3:55 PM Day 1 Closing Remarks

Susan Helper, Case Western Reserve University (Co-chair\*) Wolfgang Keller, University of Colorado (Co-chair\*)

### 4:00 PM Adjourn Day 1

<sup>\*</sup> Member of the Planning Committee

### DAY 2: Thursday - May 6, 2021 Via Zoom

9:30 AM Welcome

Susan Helper, Case Western Reserve University (Co-chair\*) Wolfgang Keller, University of Colorado (Co-chair\*)

9:35 AM Keynote Address—

FDI and Superstar Spillovers: Evidence from firm-to-firm transactions

John Van Reenen, London School of Economics

10:05 AM Paper: Creation and Diffusion of Knowledge in the Multinational Firm

Çağatay Bircan (EBRD), Beata Javorcik (EBRD, University of Oxford, and CEPR),

and Stefan Pauly (Sciences Po)

**Moderator:** Andreas Moxnes, University of Oslo\* **Discussant:** *Heiwai Tang, Hong Kong University* 

10:55 AM Paper: Firm Selection and Organizational Choice: Complex Patterns

of Global Sourcing

Valérie Smeets and Frédéric Warzynski (Aarhus University)

Moderator: Davin Chor, Dartmouth College\*

**Discussant:** Catherine Thomas, London School of Economics

11:45 AM Break

12:05 PM Paper: Are Customs Records Consistent Across Countries? Evidence

from the U.S. and Colombia

C.J. Krizan (U.S. Department of Labor), *James Tybout* (Penn State U. and NBER), Zi Wang (Shanghai University of Finance and Economics), and Yingyan Zhao

(George Washington U.)

**Moderator:** Andreas Moxnes, University of Oslo\* **Discussant:** *Jeronimo Carballo, University of Colorado* 

12:55 PM Paper: Capital Flows in Global Value Chains

*Xiang Ding (Georgetown University)* 

**Moderator:** Nadim Ahmad, Organisation of Economic Co-operation

and Development\*

**Discussant:** Brent Moulton, International Monetary Fund

#### 1:45 PM Break

# 2:05 PM Paper: Colocation of Production and Innovation: Evidence from the United States

Teresa C. Fort (Tuck School at Dartmouth & CEPR & NBER), Wolfgang Keller (University of Colorado & CEPR & NBER)\*, Peter K. Schott (Yale School of Management & CEPR & NBER), Stephen Yeaple (Penn State University & NBER), and Nikolas Zolas (Center for Economic Studies, U.S. Census Bureau)

**Moderator:** Justin R. Pierce, Federal Reserve Board\* **Discussant:** *Nicholas Bloom, Stanford University* 

### 2:55 PM Day 2 Closing Remarks

Susan Helper, Case Western Reserve University (Co-chair\*) Wolfgang Keller, University of Colorado (Co-chair\*)

### 3:00 PM Adjourn Day 2

### DAY 3: Friday - May 7, 2021 Via Zoom

#### 10:00 AM Welcome

Susan Helper, Case Western Reserve University (Co-chair\*) Wolfgang Keller, University of Colorado (Co-chair\*)

### 10:05 AM Panel: GVC Measurement Methodology: Challenges and Prospects

Moderator: Sally Thompson, U.S. Bureau of Economic Analysis (retired)\*

#### **Measuring Global Value Chains**

Timothy J. Sturgeon, Massachusetts Institute of Technology

### **Quality Challenges in Modernising Official Business Statistics**

Oscar Lemmers, Statistics Netherlands

# Measuring R&D and Competitiveness of U.S. Value-Added Exports: Prospects and Challenges

Jon D. Samuels, U.S. Bureau of Economic Analysis

**Discussant:** Francisco Moris, National Science Foundation

### 11:15 AM Break

<sup>\*</sup> Member of the Planning Committee

## 11:30 AM <u>Lessons from the Workshop: A Panel Discussion</u>

Moderator: Susan Helper, Case Western Reserve University (Co-chair\*)

Rebecca Riley, ESCoE and King's College London William Powers, U.S. International Trade Commission Maria Borga, International Monetary Fund Nadim Ahmad, Organisation of Economic Co-operation and Development\*

## 12:30 PM Closing Remarks

Wolfgang Keller, University of Colorado (Co-chair\*)

### 12:45 PM Adjourn