



Conference on the Economics of Innovation in Memory of Zvi Griliches

Organized by Philippe Aghion, Lee Branstetter and Adam Jaffe

May 21–24, 2024

COLLÈGE
DE FRANCE
— 1530 —

LVMH



TUESDAY, MAY 21, 2024

9:00 **Opening**

by Thomas Römer, Administrator of Collège de France

9:15 **Welcome and Introductions**

by Philippe Aghion, Lee Branstetter and Adam Jaffe

9:30 **Economics of Science 1**

[Chair: Lee Branstetter]

Ina Ganguli, *"Price Shocks and Scientific Production: Evidence from University Procurement Contracts"*
(Co-author: R. Murciano-Goroff)

Discussant: Karim Lakhani

Dan Gross, *"The Systemic Effects of Mission-Oriented Research: World War II and the Mid-Century Expansion of Biomedicine"* (Co-author: B. Sampat)

Discussant: Pierre Azoulay

Karim Lakhani, *"AI at the Scientific Frontier: Mapping the Diffusion of Artificial Intelligence"*

(Co-authors: F. Dell'Acqua, Z. Rasouli, MA. Awada, K. Boudreau)

Discussant: Antonin Bergeaud

11:30 *Break*

12:00 **Keynote Speaker**

Introduction: Philippe Aghion

Speaker: Joel Mokyr

12:45 *Lunch break*

13:45 **Economics of Science 2**

[Chair: Jacques Mairesse]

Kyle Myers, *"Productivity Beliefs and Efficiency in Science"*
(Co-authors: F. Bertolotti, W. Y. Tham)

Discussant: Bronwyn Hall

Pierre Azoulay, *"Who Stands on the Shoulders of Chinese (Scientific) Giants? Evidence from Chemistry"*
(Co-authors: S. Qiu, C. Steinwender)

Discussant: Ina Ganguli

Benjamin Jones, *"Adaptability and the Pivot Penalty in Science and Technology"*

(Co-authors: R. Hill, Y. Yin, C. Stein, D. Wang)

Discussant: Adam Jaffe

15:45 *Break*

16:15 **Innovation and Growth 1**

[Chair: Benjamin Jones]

Nicolas Crouzet, *"Intangible capital, non-rivalry, and growth"*
(Co-authors: J. Eberly, D. Papanikolaou, A. Eisfeldt)

Discussant : Philippe Aghion

Ernest Liu, *"Transition to Green Technology along the Supply Chain"* (Co-authors: P. Aghion, L. Barrage, D. Hémous, E. Liu)

Discussant: Fabrizio Zilibotti

Danial Lashkari, *"Growth Through Innovation Bursts"*
(Co-authors: G. Berlingieri, M. De Ridder, D. Rigo)

Discussant: Nicolas Crouzet

18:15 *Adjourn*

9:00 ***Innovation and Growth 2***

[Chair: Bronwyn Hall]

Ufuk Akcigit, *“Firm and Productivity Dynamics under the Iron Curtain”*

(Co-authors: R. Brauer, A. Markewich, J. Miranda, A. Zherdeva)

Discussant: Pete Klenow

Timo Boppart, *“Ideas Rents and Firm Growth”*

(Co-authors: P. Klenow, R. Laski, H. Li)

Discussant: Ernest Liu

Fabrizio Zilibotti, *“The Cleaning Effects of Quality-Led growth”*

(Co-authors: P. Aghion, T. Boppart, M. Peters, M. Schwartzman)

Discussant: Maarten de Ridder

11:00 *Break*

11:30 ***Keynote Speaker***

Introduction: Philippe Aghion

Speaker: James Heckman

12:15 *Lunch break*

13:15 ***Inventors, Patents and IPR***

[Chair: Reinhilde Veugelers]

Kevin Bryan, *“The Paper Trail of Knowledge, Revisited”*

(Co-authors: Y. Ozcan, B. Sampat)

Discussant: Fabiana Visentin

Mark Schankerman, *“Screening Property Rights for Innovation”*

(Co-author: W. Matcham)

Discussant: Dietmar Harhoff

Mercedes Delgado, *“Are Female Inventors Geographically Constrained? Gender Differences in Team Collocation”*

(Co-author: L. Gius)

Discussant: Kyle Myers

15:15 *Break*

15:30 ***Innovation and Growth 3***

[Chair: Manuel Trajtenberg]

Maarten de Ridder, *“Lost in transition: financial barriers to green growth”*

(Co-authors: P. Aghion, A. Bergeaud, J. Van Reenen)

Discussant : Ufuk Akcigit

Pete Klenow, *“Romer or Ricardo?”*

(Co-author: C.T. Hsieh, K. Shimizu)

Discussant : Timo Boppart

17:00 ***Panel Discussion:***

[Moderator: Ben Jones]

Productivity Slowdown: Once and Future?

Robert Gordon, Ufuk Akcigit, Pete Klenow, Huiyu Li

18:30 *Adjourn*

THURSDAY, MAY 23, 2024

9:00 **Value, Direction and Consequences of Innovation**

[Chair: Pierre Azoulay]

Shane Greenstein, *“New Economic Forces Behind the Value Distribution of Innovation”*

(Co-authors: T. Bresnahan, P-L. Yin)

Discussant: Lee Branstetter

Xavier Jaravel, *“Social Push and the Direction of Innovation”*

(Co-authors: E. Einio, J. Feng)

Discussant: Ariel Stern

Fabiana Visentin, *“How fast is this novel technology going to be a hit? Antecedents predicting follow-on inventions”*

(Co-authors: R. Veugelers, M. Pezzoni)

Discussant: Kevin Bryan

11:00 *Break*

11:30 **Keynote Speaker**

Introduction: Lee Branstetter

Speaker: Robert Gordon

12:15 *Lunch break*

13:15 **Causes and Consequences of Innovation**

[Chair: Dietmar Harhoff]

Ariel Stern, *“Who Drives Digital Innovation: Evidence from the U.S. Medical Device Industry”*

(Co-authors: A. Everhart, C. Foroughi)

Discussant: Iain Cockburn

Josh Lerner, *“The Diffusion of New Technologies”*

(Co-authors: A. Kalyani, N. Bloom, M. Carvalho, T. Hassan, A. Tahoun)

Discussant: Gaetan de Rassenfosse

Charles Brown, *“How Technological Innovation Affects Retirement Decisions ”*

(Co-authors: J. Bound, C. Fang)

Discussant: Kathy Shaw

15:15 *Break*

15:45 **Producers, Inventors, and Innovation**

[Chair: Carolyn Stein]

Dominique Guellec, *“NPL vs. NLP: Analysing the links between science and technology using citations and semantics”*

(Co-authors: M. Amdaoud, J. Liu, W. Mesheba, J. Quemener, D. Sapinho, J-M. Deltorn)

Discussant: Manuel Trajtenberg

Dietmar Harhoff, *“Inventor Returns and Mobility”*

(Co-authors: D. Heller, P. Momtaz)

Discussant: Mercedes Delgado

Antonin Bergeaud, *“The missing workers: Innovation and demographics after World War I”*

(Co-author: J.B. Chaniot)

Discussant: Dan Gross

17:45 *Adjourn*

9:00 **Keynote Speaker**

Introduction: Adam Jaffe

Speaker: Kathryn Shaw

9:45 **Economics of Science 3**

[Chair: Iain Cockburn]

Bronwyn Hall, *“Explorations of cumulative advantage using data on French physicists”*

(Co-author: J. Mairesse)

Discussant: Francesco Lissoni

Carolyn Stein, *“The Wandering Scholars: Understanding the Heterogeneity of University Commercialization”*

(Co-authors: J. Lerner, H. Manley, H. Williams)

Discussant: Reinhilde Veugelers

11:05 *Break*

11:30 **Panel Discussion:**

[Moderator: Adam Jaffe]

Big Data, NLP, ML—Where have they gotten us and where are we going?

Manuel Trajtenberg, Antonin Bergeaud,

Kevin Bryan, Reinhilde Veugelers

13:00 *Ajourn*