



Conference on the Economics of Innovation in Memory of Zvi Griliches

Organized by Philippe Aghion, Lee Branstetter and Adam Jaffe
with the support of LVMH and Fondation du Collège de France

May 21,24 2024

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"*

Discussant: Karim Lakhani

Dan Gross, *"Escaping the Burden of Knowledge through Pasteur's Back Door: World War II and the Mid-century Expansion of Biomedical Science"*

Discussant: Pierre Azoulay

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

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"*

Discussant: Bronwyn Hall

Pierre Azoulay, *"Who Stands on the Shoulders of Chinese (Scientific) Giants? Evidence from Chemistry"*

Discussant: Ina Ganguli

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

Discussant: Manuel Trajtenberg

15:45 *Break*

16:15 **Innovation and Growth 1**

[Chair: Benjamin Jones]

Nicolas Crouzet, *"Intangible capital, non-rivalry, and growth"*

Discussant : Philippe Aghion

Ernest Liu, *"Production Chains and Technological Transitions"*

Discussant: Fabrizio Zilibotti

Maarten de Ridder, *"Growth Through Innovation Bursts"*

Discussant: Ufuk Akcigit

18:15 *Adjourn*

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

[Chair: Bronwyn Hall]

Ufuk Akcigit, *“Where Have All the «Creative Talents» Gone? Employment Dynamics of Inventors”*

Discussant: Pete Klenow

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

Discussant: Ernest Liu

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

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”*

Discussant: Fabiana Visentin

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

Discussant: Dietmar Harhoff

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

Discussant: Kyle Myers

15:15 *Break*

15:45 ***Panel Discussion:***

[Moderator: Ben Jones]

Productivity Slowdown: Once and Future?

Robert Gordon

Ufuk Akcigit

Pete Klenow

Huiyu Li

17:15 **Pete Klenow**, *“Romer or Ricardo”?*

Discussant: Timo Boppart

18:00 *Adjourn*

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

[Chair: Pierre Azoulay]

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

Discussant: Lee Branstetter

Xavier Jaravel, *"Social Push and the Direction of Innovation"*

Discussant: Ariel Stern

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

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"*

Discussant: Iain Cockburn

Josh Lerner, *"The Diffusion of New Technologies"*

Discussant: Gaetan de Rassenfosse

Charles Brown, *"How Technological Innovation Affects Retirement Decisions"*

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"*

Discussant: Adam Jaffe

Dietmar Harhoff, *"Inventor Returns and Mobility"*

Discussant: Mercedes Delgado

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

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"*

Discussant: Francesco Lissoni

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

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*