

The 85th GIST Seminar
"Star Scientists: their Roles in Knowledge Transfer and Entrepreneurship"

Speaker:

Prof. Lynne G. Zucker

Professor in the Departments of Sociology and Policy Studies, University of California, Los Angeles (UCLA)

Prof. Michael R. Darby

Professor, UCLA Anderson School of Management, Warren C. Cordner Chair in Money and Financial Market

- ◆ **Date:** 13:20-14:50, September 11, 2017
Doors open at 13:00
- ◆ **Venue:** 4th Floor, Room 4A, GRIPS
- ◆ **Organizer:** GRIPS Innovation, Science and Technology Policy Program (GIST)
- ◆ **Language:** English
- ◆ **Outline**



In the field of Economics of Science, Zucker and Darby have pointed out the existence of “star scientists.” The term “star scientists” refers to the selected few scientists who can produce excellent results. They publish more articles than typical scientists. Their articles are cited more often than typical scientists. They apply for more patents than typical scientists. Star scientists also tend to found start-ups more often than typical scientists. Their start-ups can perform better than others. Linkage between star scientists and companies are observed not only in the U.S. but also partially in Japan in the 80s.

In this seminar we invite Professor Lynne Zucker and Michael Darby who established a series of star scientists’ studies. They will talk about a history of their research, including star scientists’ studies, and a future prospects of this field of research.

(概要)

「サイエンスの経済学」分野の研究では、Zucker & Darby 等により「スター・サイエンティスト (Star Scientist)」の存在が指摘されている。スター・サイエンティストとは、卓越した研究業績を残す少数のサイエンティストのことを指し、通常の研究者に比べて、多くの論文を出版し、多くの引用を集め、特許を多数出願する。それと同時に、スター・サイエ

ンティストは、通常の研究者と比べ、ベンチャー企業を設立する傾向にあり、またその関わっているベンチャー企業は他のベンチャー企業に比較して、高い業績を生み出している。このスター・サイエンティストと企業の好循環は、米国のみならず、80年代の日本においても、一部観察されている。

本セミナーでは、スター・サイエンティスト研究の分野を確立させた Lynne Zucker 教授と Michael Darby 教授を招き、スター・サイエンティスト研究を含めて彼らの研究のこれまでの流れをたどり、今後の研究者に向けて、これからの課題や展望を語っていただく。

◆ Program

Moderator: Professor Koichi Sumikura, GRIPS; Assistant Professor Kanetaka Maki, GRIPS

- 13:20-13:50 Lecture by Professor Lynne Zucker, UCLA
- 13:50-14:20 Lecture by Professor Michael Darby, UCLA
- 14:20-14:45 Q&A, Discussion
- 14:45-14:50 Wrap-up and Closing

◆ Related Events

Please visit following URL to find more seminars by Prof. Zucker and Darby in the afternoon on the same day at GRIPS:

http://www3.grips.ac.jp/~sumikura-mostip/GRIPS_conference_20170911.pdf

If you are interested in, please register from the URL below.

◆ Registration

Please fill in Registration Form (<https://krs.bz/scirex/m?f=116>) by 5pm on September 10.

If you cannot open the form, please send email to GIST Secretariat, gist-ml@grips.ac.jp.

Registration email must include:

1) your name*, 2) institution*, 3) job title, and 4) contact information (email address or phone number)*. *Required items

The application will be closed as soon as the number of applicants reaches the capacity.

Speaker's Biography

Prof. Lynne G. Zucker

My training is in organizational sociology, institutional theory, economic sociology, and social psychology. My current major interests are on processes and impact of knowledge transmission from basic science to commercial use, especially impact on economic performance of firms, creation of new organizational populations (some of which become new industries), and on productivity growth. I share with Michael Darby an interest in identifying the major mechanisms of knowledge transfer and the institutional infrastructure that cause metamorphic industry change and rapid economic growth. Within the context of basic scientific breakthroughs that are commercially applicable, we are exploring other measures of success such as IPO returns and examining the impact of other means of knowledge transfer such as joint ventures. We are now studying many of the same processes in nanoscience, a newly emerging basic research area with significant commercial potential. To identify institutional infrastructure effects, we are completing a comparative study of biotech in Japan and the U.S. and embarking on a set of major international analyses of the transmission of scientific breakthroughs to commercial use in nanotechnology. <http://www.sociology.ucla.edu/sites/default/files/Zucker.pdf>.

Prof. Michael R. Darby

A recognized authority in macroeconomics and international finance, Michael Darby has achieved great success in both the academic and public sectors. From 1986 to 1992, Darby served in a number of senior positions in the Reagan and Bush administrations including Assistant Secretary of the Treasury for Economic Policy, Member of the National Commission on Superconductivity, Under Secretary of Commerce for Economic Affairs, and Administrator of the Economics and Statistics Administration. During his appointment, he received the Treasury's highest honor, the Alexander Hamilton Award.

Dr. Darby is the widely-cited author of eleven books and monographs and numerous other professional publications. His most recent research has examined the growth of the biotechnology and nanotechnologies industry in the United States and in California, all science and engineering fields and high-technology industries in the world, and the role that universities and their faculties play in encouraging local economic development. Concurrently he holds appointments as chairman of The Dumbarton Group, research associate with the National Bureau of Economic Research, and adjunct scholar with the American Enterprise Institute. He is also director of UCLA's John M. Olin Center for Public Policy, a position he has held since 1993. Previous to his Anderson School appointment in 1987, Darby held faculty positions or fellowships with UCLA's department of economics, Stanford University, and Ohio State University. From his schooling to 1982, he also was vice president and director of Paragon Industries, Inc., a Dallas manufacturer of high-temperature kilns, furnaces, and refractories.

<http://luskin.ucla.edu/person/michael-darby/>

<http://www.anderson.ucla.edu/faculty-and-research/strategy/faculty/darby>