International Symposium on Tracking Careers of Doctoral Graduates

-International Frameworks and Surveys in Each Country-

Profiles of International Guests

(Order of the Presentation)

Laudeline Auriol

Administrator, OECD DSTI/EAS

Laudeline Auriol is analyst at the OECD Directorate for Science, Technology and Industry where she is responsible for the measurement of human resources for science and technology and project manager of the international (OECD/UNESCO/Eurostat) survey on careers of doctorate holders (CDH).

She has twenty years of experience in the field of science and technology indicators, is responsible for the biannual publication of the Main Science and Technology Indicators (MSTI) and is the author of articles in specialized and academic journals. She has also been a Member of the Scientific and Prospective Committee at the French Observatory for Science and Techniques for 2 successive mandates. She holds a Master Degree in statistics and demographics.

Responsibilities as an Administrator:

- Analyst on human resources in science and technology
- Project manager for the international (OECD/European Commission/UNESCO) survey on careers of doctorate holders
- Responsible for the biannual publication of the "Main Science and Technology Indicators"

Other work Experience at OECD

- 1993-2000: Responsible for cooperation with non OECD countries in the field of science and technology indicators
- 1986-1993: In charge of database developments for patent data, technology balance of payments and previously of the statistical annex of the OECD Economic Outlook

Other Responsibilities

- 2002- 2007: Member of the Scientific and Prospective Committee at the French Observatory for Science and Techniques (2 successive mandates)
- 2003-2005: Member of the Project Group «Attractiveness of the French territory for research, development and innovation activities» at the French Commissariat Général du Plan
- 2000-2001: Member of the steering group for renovating the French survey on R&D expenditure in the public sector

About OECD-DSTI

The Directorate for Science, Technology and Industry (DSTI) develops evidence-based policy advice on the contribution of science, technology and industry to societal well-being and economic growth. In particular, **DSTI** leads **OECD** work on the translation of science, technology and knowledge into innovation. **DSTI** also manages internationally comparable databases on the links between R&D, industry, technology, competitiveness and globalization to inform research and the policy debate.

[http://www.oecd.org/sti/]

Laura Marin

Senior Manager Member, European Science Foundation

Laura Marin is a senior manager for Member Relations and Partnerships at the European Science Foundation. In this role she has facilitated numerous fora on science governance issues such as the one dedicated to research careers development and career tracking.

Previously she was team leader of the European Science Open Forum in 2008 in Barcelona (ESOF2008) and Director of Operations at the Catalan Foundation for Research and Innovation. She has several years of experience in managing research and innovation projects at the European Foundation for Quality Management in Brussels and at the Institute for Research and Development at the Fachhochschule Bielefeld in Germany. She holds a M.Litt in Management, Economics and International Relations from the University of St. Andrews (UK) as well as a degree in Political Science from the Universitat Autonoma de Barcelona (ES).

About ESF

The establishment of **the European Science Foundation (ESF)** in Strasbourg in 1974 was one of the earliest milestones on the road to achieving real cooperation in European research. **The ESF** began life with a membership of 42 academies and research councils in 15 countries; in 2012 it counts 72 Member Organizations (MOs), including research funding organizations, research performing organizations, academies and learned societies, in 30 countries.

As an independent, non-governmental organisation dedicated to pan-European scientific networking and collaboration, the **ESF** has had a key role to play in mediating between a multitude of heterogeneous research cultures and agencies. The **ESF** hosts an array of instruments to accommodate various types and levels of international collaboration, within Europe and beyond.

The **ESF's** unique characteristic in this area is its responsiveness to the scientific community, in contrast with the more targeted approaches taken by the European Commission. Many of the instruments operated by the **ESF**, e.g. Exploratory Workshops, EUROCORES (European Collaborative Research scheme), Research Networking Programmes (RNPs) and **ESF** Research Conferences, are designed to respond to needs articulated by the research community. Open calls for proposals are published on an annual basis, so that the themes for programmes, networks and workshops are gathered from the research community, in line with the **ESF's** bottom-up principles. This is particularly welcome in research areas which might not otherwise be prioritised for funding on an international level.

In recent years, the **ESF's** profile has shifted from being mainly a facilitator of collaborative research and networking to also providing a platform for Member Organisations to develop joint strategic operations and synergy among themselves. By influencing the strategic agendas of MOs in this way, greater leverage over a much larger European budget and agenda is achieved. In other words, the **ESF** maximises the impact of its support to the research community by combining bottom-up and topdown approaches to scientific cooperation.

[http://www.esf.org/]

Luis Sanz-Menéndez

Director of the IPP from the CSIC (Spanish National Research Council)
Chair of the OECD Committee for Scientific and Technological Policy (CSTP).

Luis Sanz-Menéndez, a Spanish national, is CSIC Research Professor and Director of the Institute of Public Goods and Policies (IPP) from the CSIC (National Research Council) in Madrid and chair of the OECD Committee for Scientific and Technological Policy (CSTP).

He also has worked in a variety of advisory roles to the Spanish authorities at the Ministries of Education and Science; Science and Innovation; and Economy and Competitiveness since 2004. He has been member of the GRENCYT, where it was elaborated the National Strategy for Science and Technology (2007-2015), which was approved by The Conference of Government Presidents (National and Regionals) and the 6th. National R&D and Innovation Plan (2008-2011). Previously he was Deputy Director General for Research Planning and Monitoring at the Ministry of Science and Technology and responsible of the Spanish National Research, Technology and Innovation Plan.

He was also involved in several international S&T policy advisory activities (among others: the European Commission (Directorate General for Research); OCDE; UNESCO; Interamerican Development Bank (IDB); UNIDO, COST, etc.) and he has also been engaged with developing analysis and advising for science and innovation policy making entities for science and technology in several countries, especially in Latin American countries.

Luis received his PhD at the Complutense University in Madrid in Political Sciences and Sociology and he has been postdoctoral fellow and visiting researcher in various universities such as UC Berkeley, CSI-École des Mines in Paris, University of Twente in The Netherlands, School of Public Policy at GeorgiaTech in Atlanta, School of Public and International Affairs at the University of Georgia in Athens, School of Public Affairs at the University of Colorado in Denver; etc.

About CSIC, IPP, and OECD-CSTP

The **Spanish National Research Council (CSIC)** is the largest public institution dedicated to research in Spain and the third largest in Europe. Belonging to the Spanish Ministry of Economy and Competitiveness through the Secretary of State for Research, Development and Innovation, its main objective is to develop and promote research that will help bring about scientific and technological progress, and it is prepared to collaborate with Spanish and foreign entities in order to achieve this aim. [http://www.csic.es/]

The mission of **the CSIC Institute of Public Goods and Policies (IPP)** is to advance knowledge in a specific domain of the relationship between the society, the market and the state. The objective will be to go deeply into the comparative analysis and understanding of the nature of a singular type of goods, public and collective goods, as well as the processes of definition and implementation of public policies and their mutual interactions. It is a major goal of the Institute to produce knowledge that can be used and evaluated by the scientific community, as well as knowledge relevant for social actors, institutions and governments. [http://www.ipp.csic.es]

The strategic objectives of **the Committee for Scientific and Technological Policy** as defined in its Mandate and by the work priorities agreed by the Member countries' Ministers responsible for science and technology provide the framework for the Secretariat's proposals for activities to be developed or initiated under the aegis of the Committee itself or its subsidiary bodies (NESTI, TIP, GSF and WPB).
[http://www.oecd.org/sti/scienceandtechnologypolicy/committeeforscientificandtechnologicalpolicy.htm]

Lynn Milan

Project Officer, National Science Foundation, National Center for Science and Engineering Statistics (the U.S.)

Lynn Milan is a project officer in the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation in the U.S. She manages the Survey of Doctorate Recipients (SDR), a biennial longitudinal study of individuals who earned a research doctoral degree in science, engineering, or health from a U.S. academic institution. Her current efforts have focused on the international component of the SDR, operational changes to improve timeliness of data, and plans for redesigning survey content. Results from the SDR are used to inform policies related to the S&E enterprise and are published regularly in two NCSES Congressionally mandated reports: *Science and Engineering Indicators* and *Women, Minorities, and Persons with Disabilities in Science and Engineering*.

The SDR is one of three surveys (along with the National Survey of College Graduates and the National Survey of Recent College Graduates) that combine to form the Scientists and Engineers Statistical Data System (SESTAT). As a member of the SESTAT team, Dr. Milan coordinates regularly with the other SESTAT survey managers to ensure consistency in procedures and decisions implemented across the SESTAT surveys.

Prior to starting at NSF, Dr. Milan was a survey statistician at the U.S. Army Research Institute for the Behavioral and Social Sciences and a data analyst at the U.S. Government Accountability Office. She received her PhD in psychology from the Graduate Center of the City University of New York.

About NSF and NCSES

The National Science Foundation (NSF) is an independent federal agency created by the U.S. Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense." With an annual budget of about $6.9 billion (FY 2010), **NSF** is the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities. In many fields such as mathematics, computer science and the social sciences, **NSF** is the major source of federal backing.
[http://www.nsf.gov/]

Within **the NSF** is **the National Center for Science and Engineering Statistics (NCSES)**, one of 13 U.S. federal statistical agencies. The mission of **NCSES** is to serve as a central federal clearinghouse for the collection, interpretation, analysis, and dissemination of objective data on science, engineering, technology, and research and development. To accomplish this mission, **NCSES** designs, supports, and directs periodic national surveys and performs a variety of other data collections and research related to the science and engineering enterprise in the United States and other nations that is useful to practitioners, researchers, policymakers, and the public. In particular, **NCSES** is responsible for statistical data on the following:

- research and development;
- the science and engineering workforce;
- U.S. competitiveness in science, engineering, technology, and R&D; and
- the condition and progress of STEM education in the U.S.

[http://www.nsf.gov/statistics/]

Janet Metcalfe

Chair and Head, Vitae (the U.K.)

Dr Janet Metcalfe is Chair and Head of Vitae, committed to enhancing the quality and output of the UK research base through supporting the training and development of world-class researchers. She is responsible for the strategic direction of Vitae and leads on the implementation of the UK Concordat to Support the Career Development of Researchers.

As part of Vitae's implementation of the Concordat, she is a member of the CROS/PIRLS Steering Group, responsible for developing and managing the Careers in Research Online Survey (CROS) and the Principal Investigators and Research Leaders Survey (PIRLS). She is a founder member of the Impact and Evaluation Group, exploring the impact of researchers and researcher development and sits on the Postgraduate Research Experience Survey (PRES) Steering Group. She chaired the Vitae Researcher Development Framework project team, which developed the professional development planner based on the knowledge, skills and attributes of highly effective researchers.

In Europe Janet is a member of the European Commission's Steering Group for Human Resources and Mobility working group on skills and the European Science Foundation Member Organisation forum: the European Alliance for Research Careers Development. She chaired the European Universities Association working group reviewing existing practice on the systematic collection of data on doctoral candidates' career paths, part of the DOC-CAREERS project.

Her publications include the 'What Do PhDs Do?' and 'What do researchers do?' series of publications exploring the landscape of researchers' careers and impact, including 'Doctoral graduate destinations and impact three years on'. She is co-author of the Universities UK research report 'Promoting the UK doctorate: opportunities and challenges', 2009 and the Impact and Evaluation Group report 'Impact of researcher training and development: two years on', 2010.

About Vitae

Vitae is the UK organisation championing the personal, professional and career development of postgraduate researchers and research staff in higher education institutions and research institutes. We play a major role in the drive for high-level skills and innovation and in the UK's goal to produce world class researchers. Our vision is for the UK to be world-class in supporting the personal, professional and career development of researchers. **Vitae** is supported by Research Councils UK (RCUK), managed by CRAC: The Career Development Organisation and delivered in partnership with regional Hub host universities.

[http://www.vitae.ac.uk/]