The ACS International Center presents:

“€80 billion Funding for Research in Europe”

February 6, 2014
3:00-4:00pm EST
Ellene Tratras Contis, Ph.D.
Professor of Chemistry, Eastern Michigan University

Professor of Chemistry at Eastern Michigan University and Director of the CSIE Program. Chemistry background in radio analytical chemistry with an emphasis on drinking water. Member of the International Activities Committee of the American Chemical Society and Chair one the Regional Subcommittees on Europe and the Middle East.

This subcommittee works to engage the international members of ACS through various programs and initiatives, such as scholar exchange programs and building international chapters. At the last National ACS meeting, IAC co-hosted with the Division of Environmental Chemistry a "Global Problems, Local Solutions" Symposium.
About ACS

**ACS Vision:**
“Improving people’s lives through the transforming power of chemistry”

**ACS Mission:**
“Advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people.”

- 163,000+ members
  - 187 Local Sections
  - 32 Technical Divisions
- 87% of members have degrees in chemistry, 13% in other fields
- >60% of members in business & industry
- 25,000 members living outside the U.S.
- 2 locations
- 1,900+ employees
www.acs.org/ic

The **ACS International Center™** is a program managed by the **ACS Office of International Activities** under the imprimatur of the **ACS Committee on International Activities**.

The **ACS IC** is an online clearinghouse of information on international exchange programs for high schoolers, undergraduates, graduates, postdocs, faculty, and professionals from across the globe seeking more information for their international achievement. The website currently contains information on over 400 unique programs in 16 geographies, sorted across 6 levels of professional experience.

**visit [www.acs.org/ic](http://www.acs.org/ic)** or e-mail [ic@acs.org](mailto:ic@acs.org).
Viktoria Bodnarova

EURAXESS Links North America Regional Representative
Born in Slovakia, Viktoria Bodnarova received her Master’s degree in International Relations and European studies from Prague’s Metropolitan University in 2008. She then worked as project manager and a national coordinator for the Academy of Sciences of the Czech Republic of the Czech EURAXESS Network.

Since then, Viktoria’s role has developed and she has participated as a speaker in several European and non-European events dealing with international mobility, career development of researchers and entry conditions for third country national researchers.

She has been working since 2013 as the EURAXESS Links Regional Representative for North America. She is in charge of the community of European and non-European researchers based in North America (approx. 3700 members) informing them mainly about funding and career opportunities the European Research Area has to offer and being their first contact point before their move to Europe.
Jean-Michel Sers, EURAXESS Links
USA Country Representative based in Washington, D.C.

Special expertise: European Framework policy actions

Before EURAXESS, Sers was Directorate-General for Research and Innovation at the European Commission. He oversaw the conduct and development of research and innovation policy dialogue with ASEAN and India, including the preparation of policy and position papers.

Sers began his career with a degree in International and European law and business administration at the University of Montpellier, France. During 2000-2009, Sers served as project officer at the European Commission on issues of energy technology promotion and program coordination and implementation, and worked for ADEME and Cirad, two major French public research organizations, implementing energy and agriculture projects.
HORIZON 2020

Excellent Science
Global Challenges
Competitive Industries

Open to the world!
H2020 open to the world

1. Introduction to H2020 and its structure

2. H2020 opportunities for organisations

3. H2020 opportunities for individual researchers, and EURAXESS
What is H2020?

- Horizon 2020 - The new EU Framework Programme for Research and Innovation
- World’s largest funding programme for research and innovation – about 79 billion euro (2014 - 2020)
- Combines the formerly separate funding programmes for R&I (FP7, EIT, CIP)
- Stronger focus on innovation: closing the gap between knowledge and market, stronger participation of SMEs
- Orientation on Societal Challenges
- Simplification
- also many opportunities for cooperation with non-European partners
H2020 - Structure

**Tackling Societal Challenges**
- Health, demographic change and wellbeing
- Food security, sustainable agriculture and the bio-based economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and secure societies

29,67M€

**Industrial Leadership**
- Leadership in enabling and industrial technologies
  - ICT
  - Nanotech., Materials, Manuf. and Processing
  - Biotechnology
  - Space
- Access to risk finance
- Innovation in SMEs

17,07M€

**Excellence in the Science Base**
- Frontier research (ERC)
- Future and Emerging Technologies (FET)
- Skills and career development (Marie Curie)
- Research infrastructures

24,44M€

Common rules, toolkit of funding schemes
Industrial Leadership

- **Leadership in enabling and industrial technologies (LEIT):** Research and innovation in areas of particular relevance for the competitiveness of the industry (ICT, Nanotechnology, Materials, Biotechnology, Manufacturing and Processing and Space)

- **Access to risk finance:** debt facility and equity facility in order to leverage yet further private high-risk research and innovation (R&I) investments

- **Innovation in SME:** dedicated support for SME in three different stages covering the whole innovation cycle (feasibility part, demonstration and testing, commercialisation phase)
Tackling societal challenges

- 7 specific objectives which aim to contribute to solve important societal challenges of the Union
  - **Policy driven:** reflect the political priorities and societal challenges of the Europe 2020 strategy
  - **Critical mass of knowledge and resources** in order to deal with the societal challenges
- Largest budget share of 38.53% (about 26.5 billion EUR)
- **Interdisciplinary** approach
- Entire cycle from basic research to market uptake
- Strong **output orientation**
Participation in H2020 in a nutshell

1. Applications in response to calls for proposals – published in a 2-year work programme with 18 separate parts (exception ERC)

2. Consortia of different project participants (majority) or individual researchers/organisations

3. Gate to H2020 = Participant Portal with information on calls, relevant documents, submission of proposals + project management (http://ec.europa.eu/research/participants/portal)

4. Applications in English

5. Fixed deadlines or cut-off-dates

6. Time to grant in general max. 8 months: submission of proposal - evaluation by independent experts – conclusion of grant agreement
International cooperation principles

1) Horizon 2020 is **open to participation** from across the world (bottom-up approach)

2) Targeted actions (top down approach): Areas identified based on analysis of a set of criteria (**common interest & mutual benefit**):
   - Cooperation with the United States is highest priority (Four strategic priorities: Marine and Arctic, Clinical trials for poverty-related diseases, Materials and Transport)

3) Funding rules
   - **Automatic funding:**
     - Member States, Associated Countries and Developing countries (no longer BRIC + Mexico)
   - For other countries (i.e. USA), funding only in **exceptional cases**:
     - when provision is made in the call text
     - bilateral agreement (e.g. Health challenge – NIH)
     - when the Commission deems it essential (case by case assessment)
Benefits of participation in transnational collaborative R&D projects

- Sharing complementary knowledge & experience
- Economies of scale & expanded scope
- Increased research quality
- Efficiency, speed and impact gains
- Joining existing/creating new networks & contacts
- + many unintended indirect benefits ...
  - New research avenues
  - Exchange possibilities
  - Cross-disciplinary/cross-border fertilization
  - ...

Marie Skłodowska-Curie Actions

- Support for two types of mobility:
  - European: moving from outside Europe into Europe
  - Or moving within Europe

- Global: moving from Europe to a country outside of Europe – NB compulsory return phase of one year (fully funded)
Experience: Support for two categories of researchers:

Early Stage Researcher: Less than 4 years of research experience*, and without a doctoral degree ("pre-doc")

Experienced Researcher: In possession of a doctoral degree or at least 4 years of research experience* ("post-doc")

*counted from the time when the individual is entitled to embark on a doctoral degree
# Marie Skłodowska-Curie Actions

<table>
<thead>
<tr>
<th>Innovative Training Networks</th>
<th>ITN</th>
<th>Doctoral and initial training: European Training Networks, European Industrial Doctorates, European Joint Doctorates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Fellowships</td>
<td>IF</td>
<td>Support for experienced researchers to undertake international and inter-sector mobility, incl. career restart and reintegration</td>
</tr>
<tr>
<td>Research and Innovation Staff Exchange</td>
<td>RISE</td>
<td>International and inter-sector cooperation through the exchange of staff</td>
</tr>
</tbody>
</table>
| Co-funding of programmes    | COFUND | Co-funding of regional, national and international programmes:  
- doctoral programmes (ESR)  
- fellowship programmes (ER) |
Marie Skłodowska-Curie Actions

- **Next call: March 2014**
  - **Opens:** 12 March 2014
  - **Closes:** 11 September 2014
  - **@ 17:00:00 CET**
European Research Council

- The ERC supports excellence in frontier research through a bottom-up, individual-based, pan-European competition

**Budget:** € 13.09 billion (2014-2020) - 1.87 billion €/year

**Legislation**
- Scientific governance: independent Scientific Council with 22 members; full authority over funding strategy
- Support by the ERC Executive Agency (autonomous)
- Excellence as the only criterion

**Strategy**
- Support for the individual scientist – no networks!
- Global peer-review
- No predetermined subjects (bottom-up)
- Support of frontier research in all fields of science and humanities
European Research Council

**Starting Grants**
starters (2-7 years after PhD)
up to €2.0 Mio for 5 years

**Consolidator Grants**
consolidators (7-12 years after PhD) up to €2.75 Mio for 5 years

**Advanced Grants**
track-record of significant research achievements in the last 10 years up to €3.5 Mio for 5 years

**Proof-of-Concept**
bridging gap between research - earliest stage of marketable innovation up to €150,000 for ERC grant holders for 18 months

**Synergy Grants**
2 – 4 Principal Investigators
up to €15.0 Mio for 6 years
European Research Council

ERC offers independence, recognition & visibility

- to work on a research topic of own choice, with a team of own choice
- to gain true financial autonomy for 5 years
- to negotiate with the host institution the best conditions of work
- to attract top team members (EU and non-EU) and collaborators
- to move with the grant to any place in Europe if necessary (portability of grants)
- to attract additional funding and gain recognition; ERC is a quality label
European Research Council

- **OPEN CALLS:**
  - **ERC Starting Grant | ERC-2014-StG**
    Deadline Date: 25 Mar 2014
  - **ERC Consolidator Grant | ERC-2014-CoG**
    Deadline Date: 20 May 2014
  - **ERC Proof of Concept | ERC-2014-PoC**
    Deadline Dates: 1 Apr 2014 and 1 Oct 2014
Overview of EURAXESS initiatives

- recruitment tool with job opportunities, funding opportunities, grants, employment, etc.
- relocation assistance for researchers and their family
- information on the Charter and Code
- a networking tool for researchers of all nationalities outside Europe
PRACTICAL INFORMATION

Horizon 2020
http://ec.europa.eu/research/horizon2020/index_en.cfm

Euraxess North America

Bilat-USA - Bilateral Coordination to Enhance and Develop S&T Partnerships between the EU and the USA
http://www.euusscienceotechnology.eu/bilat-usa
HORIZON 2020

Open to the world!

Let's work together for a better world!

Find out more: www.ec.europa.eu/horizon2020
QUESTIONS?
Submit them into your Gotowebinar chat box now*

Or, visit:
www.acs.org/ic

*Unanswered questions will be addressed after the session and posted online at www.acs.org/ic_horizon, along with a webinar recording and presentation slides, after the session
Thank you for tuning in!

Upcoming webinars:

February 20, 2014
3:00-4:00pm EST
“Science Diplomacy as a Bridge to Peace in the Middle East”
www.acs.org/ic_malta
Dr. Zafra M. Lerman, President of the Malta Conferences Foundation, on the importance of science diplomacy in working toward stability in the Middle East.

March 2014
Partners of the Americas

April 2014
London International Youth Science Forum

May 2014
Organization for the Prohibition of Chemical Weapons (OPCW)

June 2014
Contact Singapore