

Perspective on a career in industry with global collaborations

Sergio C. Nanita

ACS International Activities
Committee

My career profile



B.S. Chemistry
University of Puerto Rico



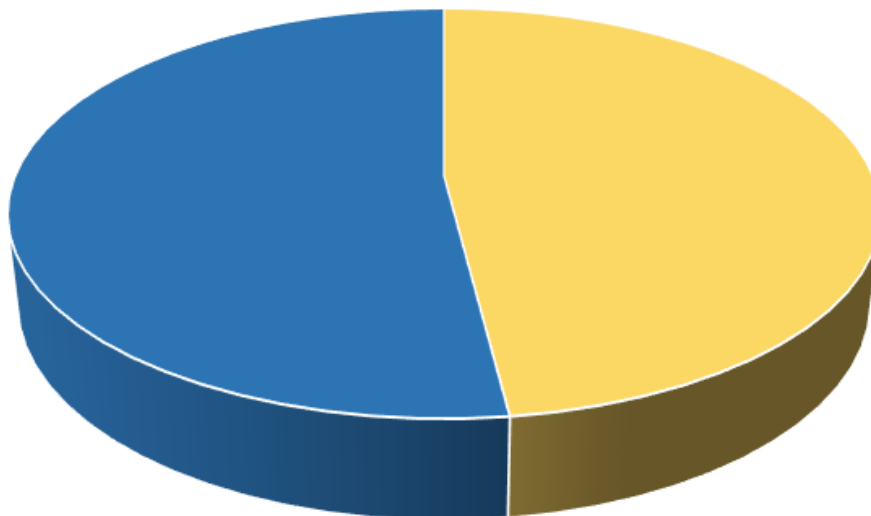
Ph.D. Analytical Chemistry
Purdue University



Analytical Chemist, Principal Investigator
The DuPont Company

- DuPont Crop Protection R&D, Product Development, 2006-2013
- DuPont Crop Protection R&D, Discovery, 2013-2016
- DuPont Science & Innovation, Corporate Center for Analytical Sciences, 2016-present

Industry, private sector workforce

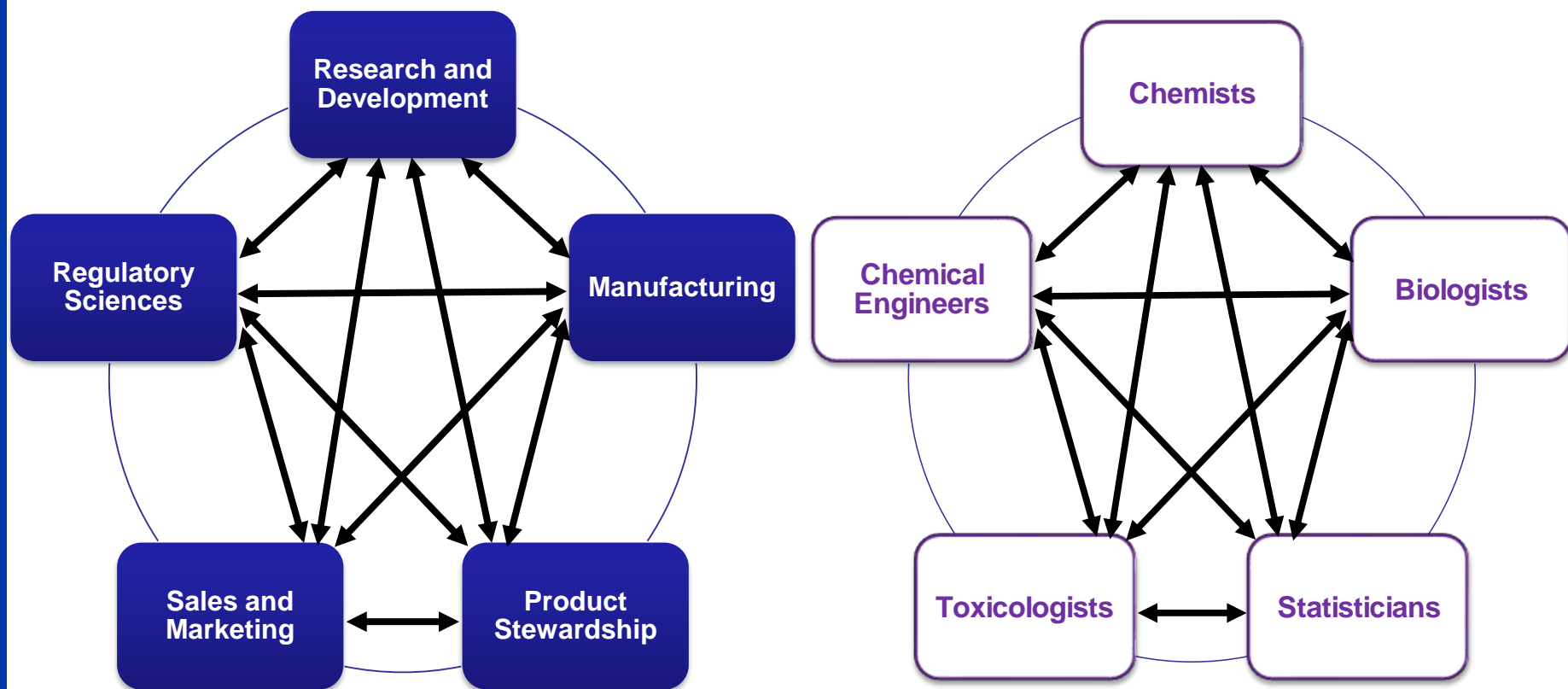


>50% of ACS members
come from Industry*

* Source: ACS Industry Member Programs

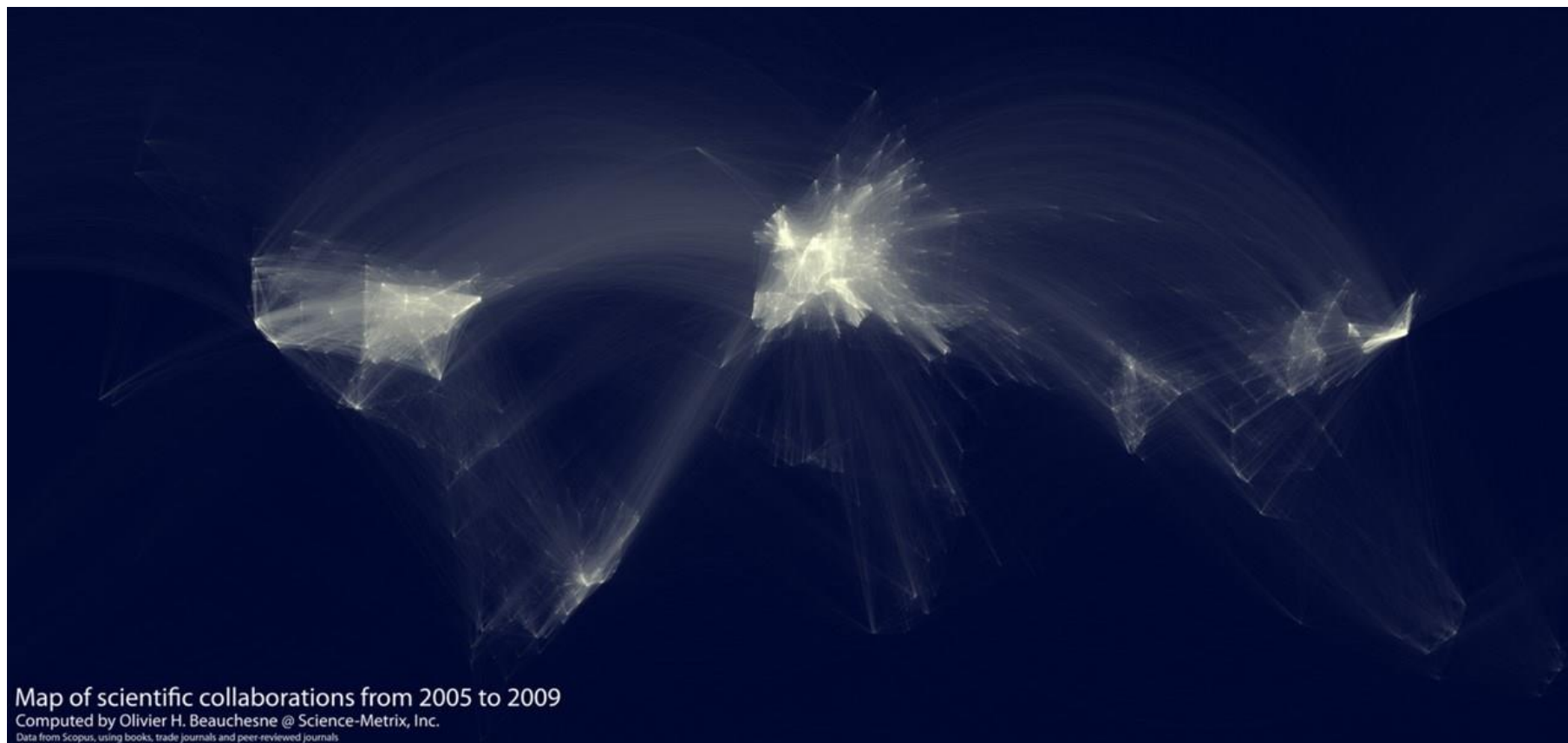
Interdisciplinary collaborations

Work in industry is collaborative across company departments, across professions



Science is global

“Map of scientific collaborations from 2005 to 2009”*



* By Olivier H. Beauchesne, <http://olihb.com>

What skills, experience and knowledge are useful beyond chemistry fundamentals?



- Communication skills
- Leadership skills
- Event planning experience
- Regulations, policy knowledge
- Industry-specific knowledge
- Awareness of trends in the profession

What can students do?



Consider the following opportunities:

- **Internships** – domestic, abroad, academic, private sector, non-profit, government
 - Gain highly-valuable work experience and knowledge
 - Expand your professional network
 - Non-permanent commitment to explore the unknown
 - Evaluate a potential university for graduate school
 - Evaluate a potential employer or industry
 - Explore a different field of research, living abroad, etc.

Utilize the available resources



For example, ACS International Center

The screenshot shows the ACS International Center website. At the top left is the ACS logo with the tagline "Chemistry for Life". A navigation menu includes "Home", "IC Events", "Affiliates", "Global Collaboration", "About Us", and "ACS Meeting Locator". A search icon is on the right. The main content area features a sidebar with "Advanced Search", "GLOBAL COMMUNITY", "International Activities", "ACS International Center", "Programs by Country", "Programs by Level of Experience", and a highlighted "Programs from your region" button. The main content area contains a link to submit a program, a banner for the ACS International Center with a world map and the tagline "Placing a world of STEM opportunities at your fingertips.", and a blue box with the text: "The ACS International Center is your virtual hub for identifying opportunities and resources as a globally curious STEM practitioner".

<https://global.acs.org/>

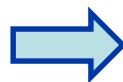
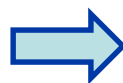
What can students do?

Consider the following opportunities:

- **Voluntary service** – e.g. community, professional society

My voluntary work experience as a student

- Leading ACS Student Chapter at Univ. of PR
- Organizing Purdue/IU Analytical Chemistry Conference
- Tour guide at Purdue Dept. of Chem. for visitors



Correlation to my work as a professional

- Professional network; work in project teams
- Professional network; organizing seminar series at DuPont
- Host/organize visit of collaborators and customers at R&D site

What can students do?

Consider the following opportunities:

- **Voluntary service** – e.g. community, professional society
- **Internships** – domestic, abroad, academic, private sector, non-profit, government
- **Coursework** – science policy, regulatory sciences, industry-specific special courses, etc.
- **Interdisciplinary centers** – policy, research, hubs for university/industry collaborations
- **Learn another language**

Thank you and best wishes for your career launch!

- Learning does not end at graduation
- Technical knowledge is still very important