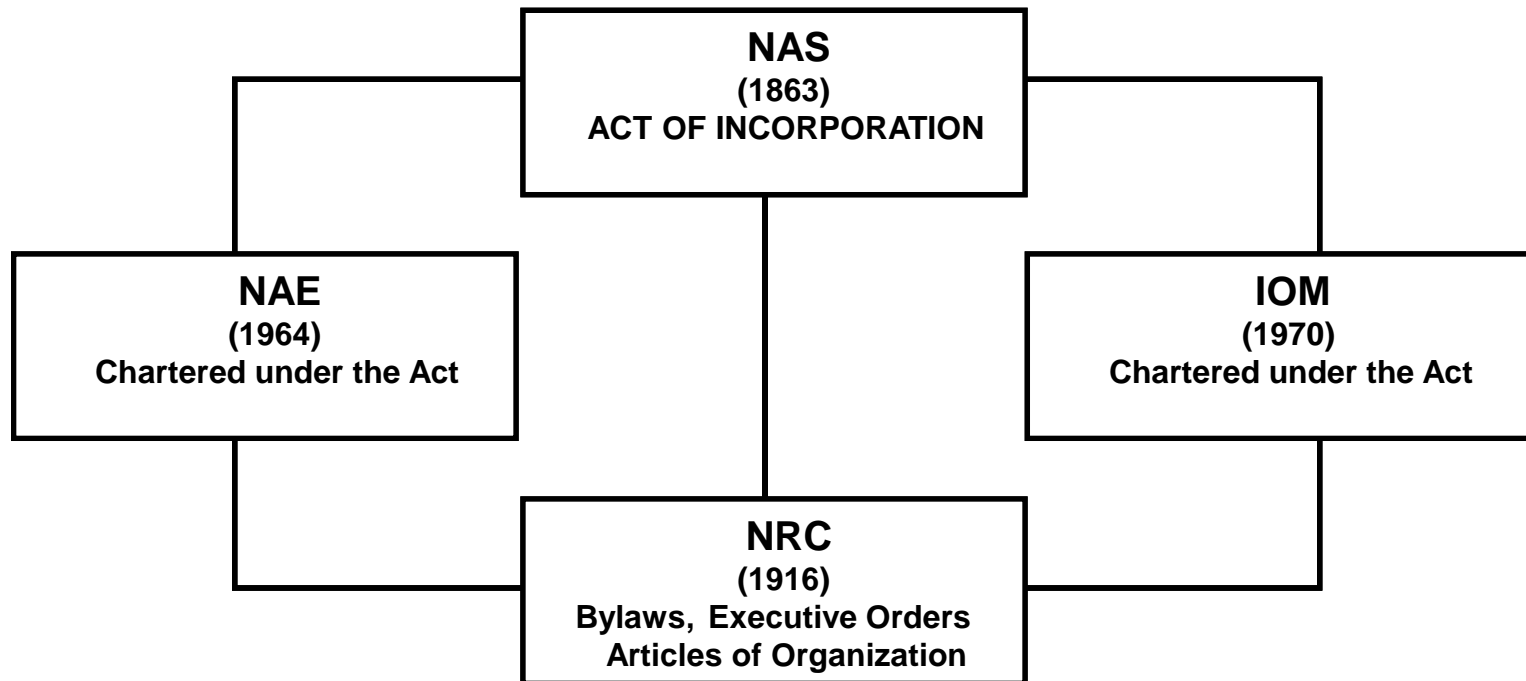


The Big Picture

May 1, 2015
Kathie Bailey

THE NAS, NAE, IOM & NRC

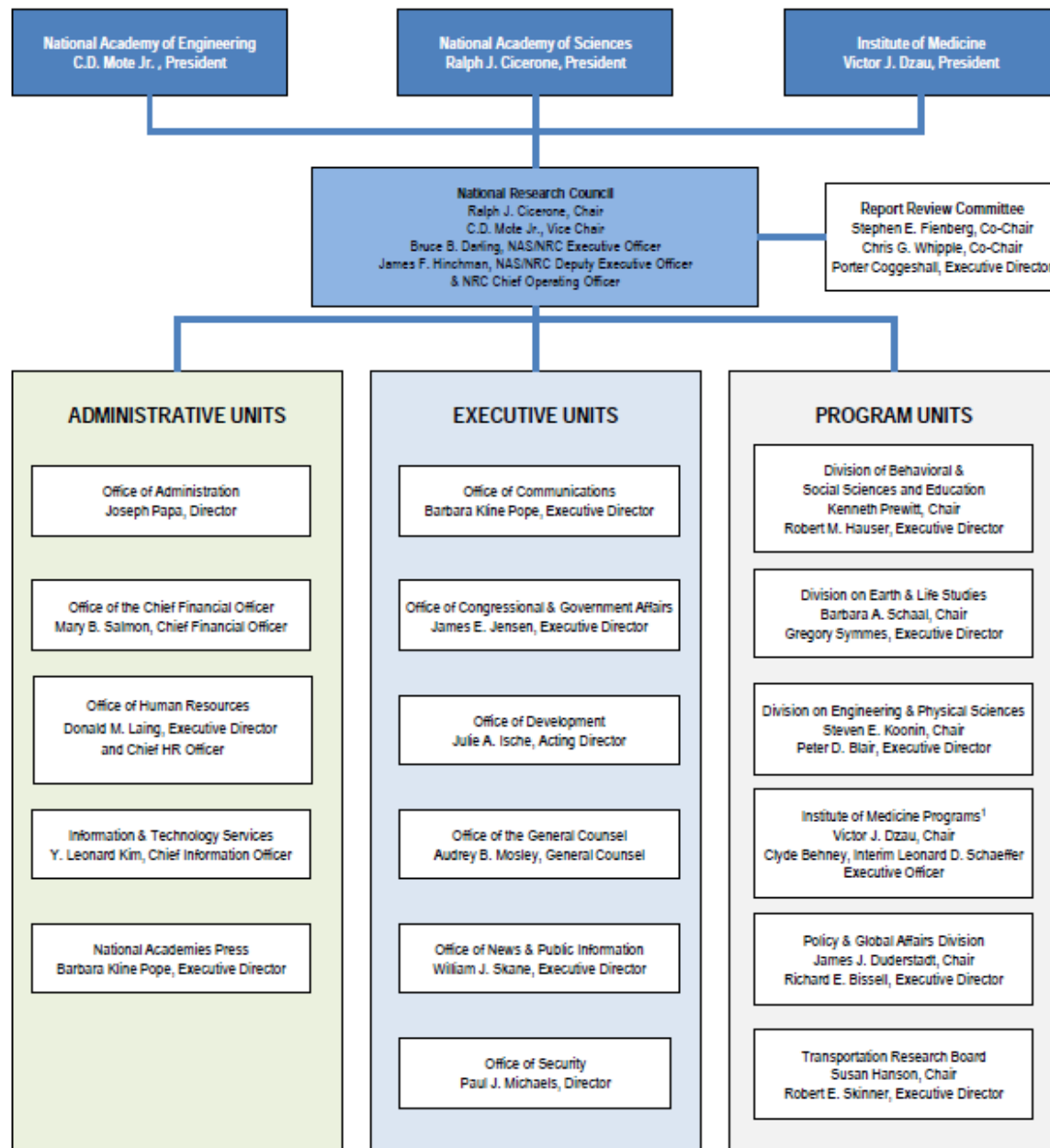


National Research Council

- Organized by the NAS in 1916 for furthering knowledge and advising the federal government
- Serves as the principal operating arm of the NAS and the National Academy of Engineering (NAE) in providing services to the government, the public, & the scientific & engineering communities
- Administered jointly by the NAS & NAE and the Institute of Medicine (IOM)

NATIONAL RESEARCH COUNCIL

Dec. 2, 2014



1. Note: The Institute of Medicine Programs follow the procedures of the National Research Council.

Where's BISO?

- ▶ BISO: Board on International Scientific Organizations
- ▶ One of 14 Boards, Committees, or Roundtables in the Policy and Global Affairs (PGA) Division
 - http://sites.nationalacademies.org/PGA/PGA_054800

BISO's Mission

The mission of BISO is to strengthen science for the benefit of society through U.S. leadership, collaboration, and representation in international scientific organizations and initiatives.

Approved by BISO Board, April 2014

BISO's Responsibilities

- ▶ International Council for Science (ICSU)
- ▶ 17 international scientific unions (including IUTAM)
- ▶ 1 ICSU-related associations
- ▶ 1 ICSU-related scientific committee
- ▶ International Institute for Applied Systems Analysis (IIASA)
- ▶ USNCs related to all of the above
- ▶ International Visitors Office (IVO)

Key Organizations for USNC/TAM

- ▶ **Your union: International Union of Theoretical and Applied Mechanics (IUTAM)**
- ▶ **ICSU: A non-governmental organization created in 1931 to advance, serve, and enable science.**
 - **2 membership categories:**
 - **National members:** ICSU has 121 national members. The NAS is the adhering body for the United States.
 - **Scientific union members:** IUTAM is one of ICSU's 32 union members.

Key Organizations (cont.)

▶ IIASA:

- Research institute located outside of Vienna, Austria
- Performs interdisciplinary research combining natural and social sciences with integrated assessment techniques and advanced mathematical methodologies, with the goal of providing policy insight on issues of regional and global importance in the following fields:
 - GLOBAL PROBLEM AREAS: Energy and Climate Change, Food and Water, and Poverty and Equity
- PROGRAM AREAS: Energy, Transitions to New Technologies, Advanced Systems Analysis, Ecosystem Services and Management, Mitigation of Air Pollution and Greenhouse Gases, Evolution and Ecology, World Population, Risk Policy and Vulnerability, and Water.

Key Organizations (cont.)

▶ IIASA (cont.)

- Opportunities for young researchers
 - Post doctoral fellowships
 - Postdoctoral positions, up to 2 years duration, should best be started between October and January.
 - Young Scientist Summer Program (YSSP)
 - From June through August, accepted participants work within the Institute's research programs under the guidance of IIASA scientific staff. Funding is provided through IIASA's National Member Organizations.
 - Usually 8–12 from the United States.
 - South African YSSP

International Visitors Office

- ▶ Central unit within the National Academies addressing visa issues
- ▶ Four categories:
 - B-1: Short-term travel to conduct business, such as scientific conferences
 - J-1: Approved exchange programs (includes different educational and career levels)
 - F-1: Academic studies (students)
 - H-1B: Temporary employment in a specialty occupation

Important IVO Information

- ▶ Online visa questionnaire:
<http://sites.nationalacademies.org/PGA/biso/visas/index.htm>
- ▶ Visa cases related to scientific activities can be reported to the IVO if:
 - B-1: Pending for 30 days and it is now 14 days before the event's start date
 - Other visa categories: Pending for 60 days after application's completion
- ▶ **Best advice: Apply 3–4 months early!**

Questions to Ponder

- ▶ How will international science be organized in 20 years?
- ▶ What role do you want IUTAM to play?
- ▶ How can the U.S. (often the largest participant and biggest donor) effect that change?
- ▶ How can the USNC/TAM contribute to the health of theoretical and applied mechanics in the United States?
- ▶ How can U.S. scientific societies help?

Thoughts?
Questions?