

Air Force Scientific Advisory Board

Integrity - Service - Excellence

SAB Overview



Jan 2003

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SAB Role & Charter



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- Provides independent technical advice to USAF leadership
- Conducts studies assigned by SecAF and CSAF
- Recommends applications of technology to improve USAF capabilities
- Reviews Air Force science and technology programs
- Provides technical advice to Air Force commands and others as needed
- Exists to complement -- but not duplicate

The SAB is a link between the Air Force and the Nation's technical community

SAB falls under the Federal Advisory Committee Act



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The Beginning ...



- **Scientific Advisory Group 1944 - 1946**
 - Organized and chaired by Dr. Theodore von Kármán
 - Provided long range forecast of R&D needs for Army Air Forces
 - Produced “Toward New Horizons”

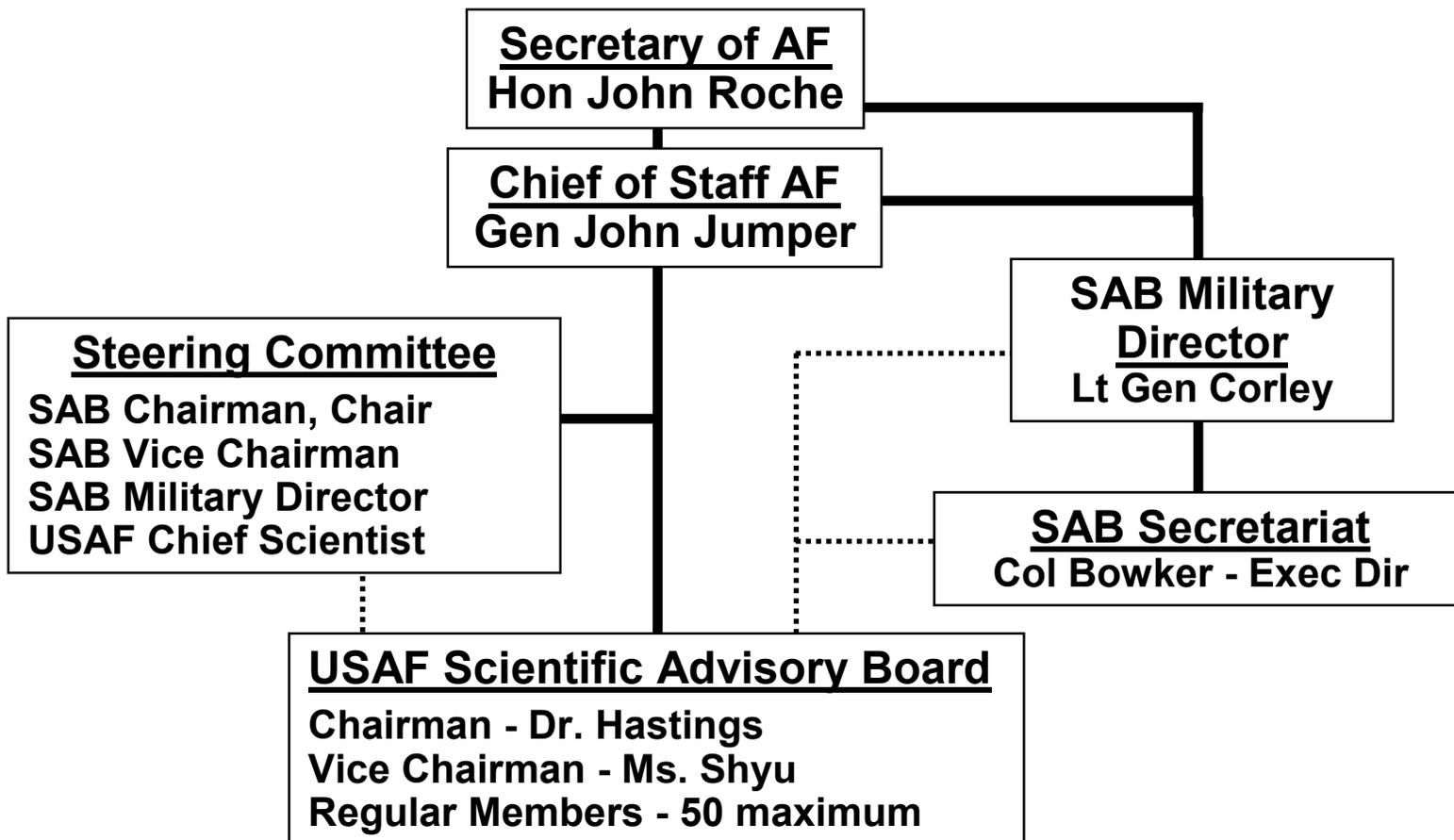
- **Scientific Advisory Board 1947 - Present**
 - Part of Air Staff
 - Originally reported only to Chief of Staff
 - Now reports to both Chief and Secretary
 - Conducts studies and provides independent technical advice
 - Provide ongoing reviews on quality of Air Force Science & Technology Program



Organizational Relationships



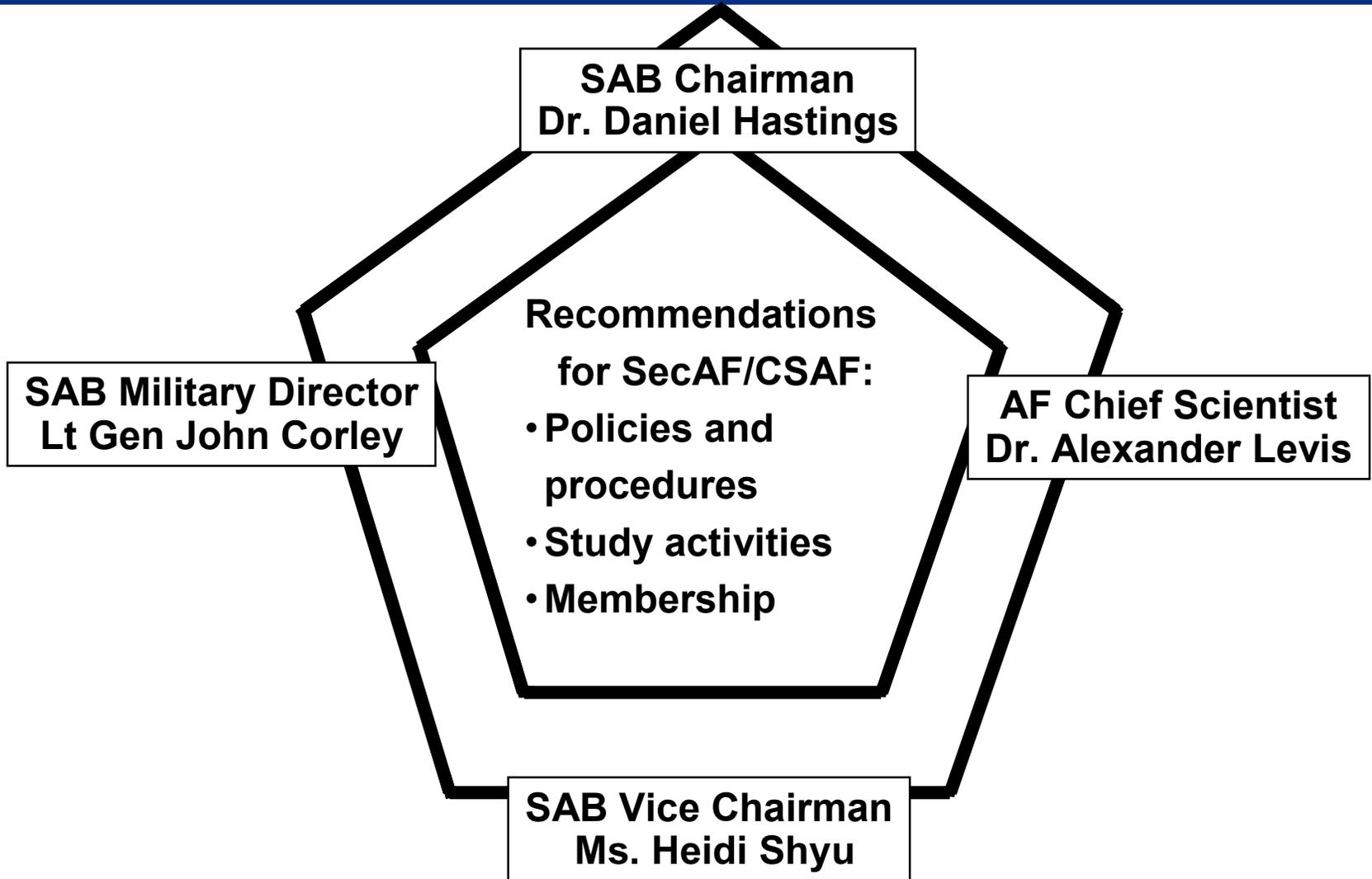
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Steering Committee





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Members



- **Selected from the Nation's science and engineering communities**
- **Recognized expertise in disciplines that are of importance to the Air Force**
- **Drawn from universities, national laboratories and industry**
- **There are at most 50 Members**
 - **Two year appointment, with two year renewal**
 - **Must be U.S. Citizens & not Government employees**
 - **Afforded same courtesies granted Lieutenant Generals (DV-4)**



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Advisors and Others



■ Ad Hoc Advisors

- Particular expertise for particular activity
- Legal review process required before participation

■ Gov't Participants

- Flag Officer & Senior Civilian
- Others as necessary

■ Executive Officers and Technical Advisors

- XO's are typically Senior Captains or Majors with relevant experience from the MAJCOMs
- TAs are typically Captains or Majors from the USAF Academy



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Role of the SAB Secretariat



- **Maintains liaison between the Board and Air Force**
- **Provides technical, administrative, and executive support for**
 - **Membership nominations and appointments**
 - **Meetings**
 - **Study topics, including advisory groups**
 - **Reports and Briefings**
 - **Travel voucher review**
 - **Security**

Ensures Federal Advisory Committee Act and other applicable laws and regulations are met



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Major Efforts



■ Studies

- Summer, Ad Hoc, and Quick Look studies
- January – July

■ Science and Technology Quality Reviews

- Review half of AFRL each year
- October – December

■ Advisory Groups

- Groups convened at request of AF Commanders
- Each group meets 1 – 3 times each year



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Studies



- **1 Major Study (“Summer Study”) per year**
 - Formal report and large briefing trail
 - 9 - 12 month effort
 - 20 - 40 members, plus many others as required

- **1 to 2 “Ad Hoc” Studies per year**
 - Formal report and varied briefing trail
 - 6 - 9 month effort
 - 10 - 20 members, plus others as required

- **1 to 3 “Quick Look” Studies per year**
 - Letter report and few briefings
 - 1 - 3 short meetings
 - Small group



Science and Technology Quality Reviews



- Two year process to look at USAF S&T Portfolio
- Reviews “Critical Technology Areas” across 9 technology directorates within Air Force Research Lab (AFRL)

FY03

Propulsion

Sensors

Space Vehicles

Special Programs

Directed Energy

FY04

Human Effectiveness

Munitions

Air Vehicles

Materials & Manufacturing

Information

Note: Basic Research (AFOSR) included in each directorate review

- Outbrief to AFMC/CC, SAF/AQ, CSAF, SecAF, DDR&E



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Command Advisory Groups

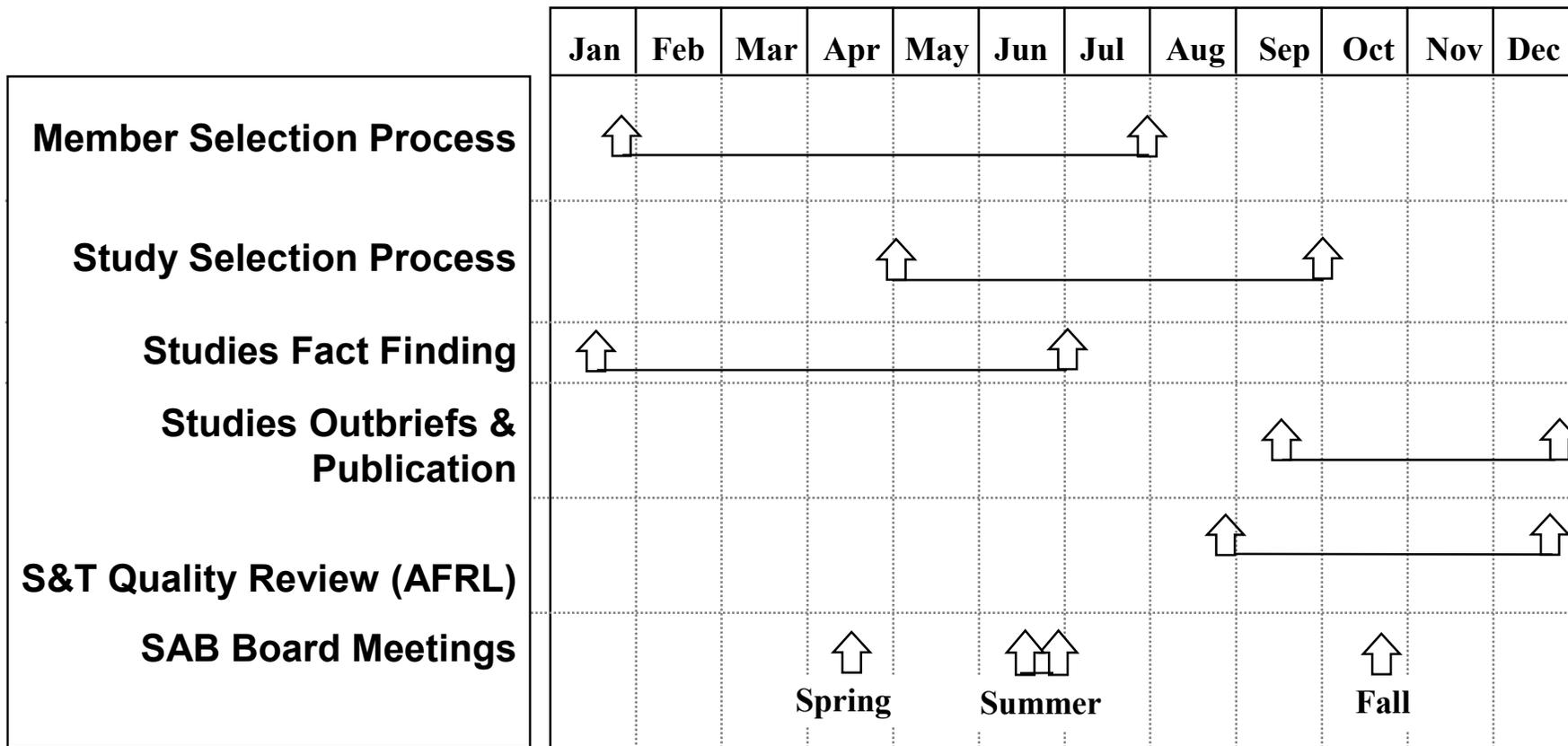


- **AFC2ISRC - Air Force Command & Control Intelligence Surveillance and Reconnaissance Center**
- **AFOTEC - Air Force Operational Test and Evaluation Center**
- **AFSOC - Air Force Special Operations Command**
- **AIA - Air Force Intelligence Agency**
- **311th Human Systems Wing**



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Nominal Schedule





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