



SAE A-6 *Aerospace Actuation, Control and Fluid Power Systems*

History

The SAE A-6 Committee is one of three committees in the **Aerospace Mechanical & Fluid Systems Division**. This division is one of seven divisions under the **SAE Aerospace Council**.

A-6 is the leading standards body in Aerospace Actuation, Control and Fluid Power Systems. It is a non-profit international organization that has contributed greatly to the excellence and growth of the Aerospace Actuation, Control and Fluid Power industry since 1941.

A-6 meetings are open to anyone associated with the Aerospace Actuation, Control and Fluid Power industry. Meeting attendees have the opportunity to debate technical issues, as well as contributing to new Aerospace Standards and Recommended Practices, which form the bases for the design and maintenance of all components and systems associated with the related industry.

Function

The A-6 Committee addresses all facets of aerospace actuation, control and fluid power design, maintenance and in service experience. Its goal is to serve as the primary U.S. technical consultative body in actuation, control and fluid power technologies to assist government agencies and departments and other industry groups in providing impartial advice and counsel on technical, operational, safety and other related matters. The committee is comprised of three subcommittees and associated working panels of industry technical experts dedicated to creating, preparing and maintaining all relevant specifications, standards and requirements for aerospace actuation, control and fluid power systems.

Profile/Charter

The committee consists of three subcommittees that provide the aerospace actuation, control and fluid power industry a focal point to maintain and explore new technologies.

Under the guidance of its chairman, Mr. **Jon Jeffery**, the committee was recently reorganized to respond to the continuously changing technologies in flight vehicle actuation and controls and power systems. The new organizational structure reflects today's key emerging technologies. Committee A-6 has the organization and the skilled team in place to meet these advancements.

Committee A-6 extends a warm welcome to its industry, government and regulatory partners and colleagues to join in this exciting and defining moment. With multiple competing control technologies and system architectures now emerging, the industry faces unprecedented changes and technical challenges. Consensus standards are vitally important at this time.



Organization

The A-6 Committee is guided by a Steering Council comprised of senior members which is responsible for Committee strategy and operation, as well as for carrying out various other organizational responsibilities of the Committee.

Members of the Steering Council and their specific responsibilities are as below:

Committee A-6 Structure and Leadership Steering Council Responsibilities

- **Jon Jeffery**, Chairman
- **Dominique van den Bossche**, Vice-Chairman & A-6 Agenda
- **Wes Burandt**, Secretary and Historian
- **Ian Halley**, A-6A Chairman & Symposium Coordinator
- **Scott Schaefer**, A-6B Chairman, Reception, and Treasury
- **Ron Zielinski**, A-6C Chairman, Policies and Procedures, ISO Liaison,
- **Curt Chenoweth**, Performance Recognition
- **Arun Trikha**, Communications

Sub-Committee	TITLE	CHARTER	PANELS
A Ian Halley-Chair	Systems/ Subsystem Integration	Total integration of systems and functions	Commercial Aircraft; Military Aircraft; Flight Control Systems; Utility Control Systems
B Scott Schaefer- Chair	Actuation and Control	Conversion of electrical and fluid power to controlled actuation	Hydraulic Servoactuation; IAP/EHA; Electro-Mechanical Actuation
C Ron Zielinski- Chair	Fluid Power Generation & Distribution	Generation, transmission and conditioning of fluid power	Filters; Seals; Fluids; Tubing; Components; Power Sources



Meetings

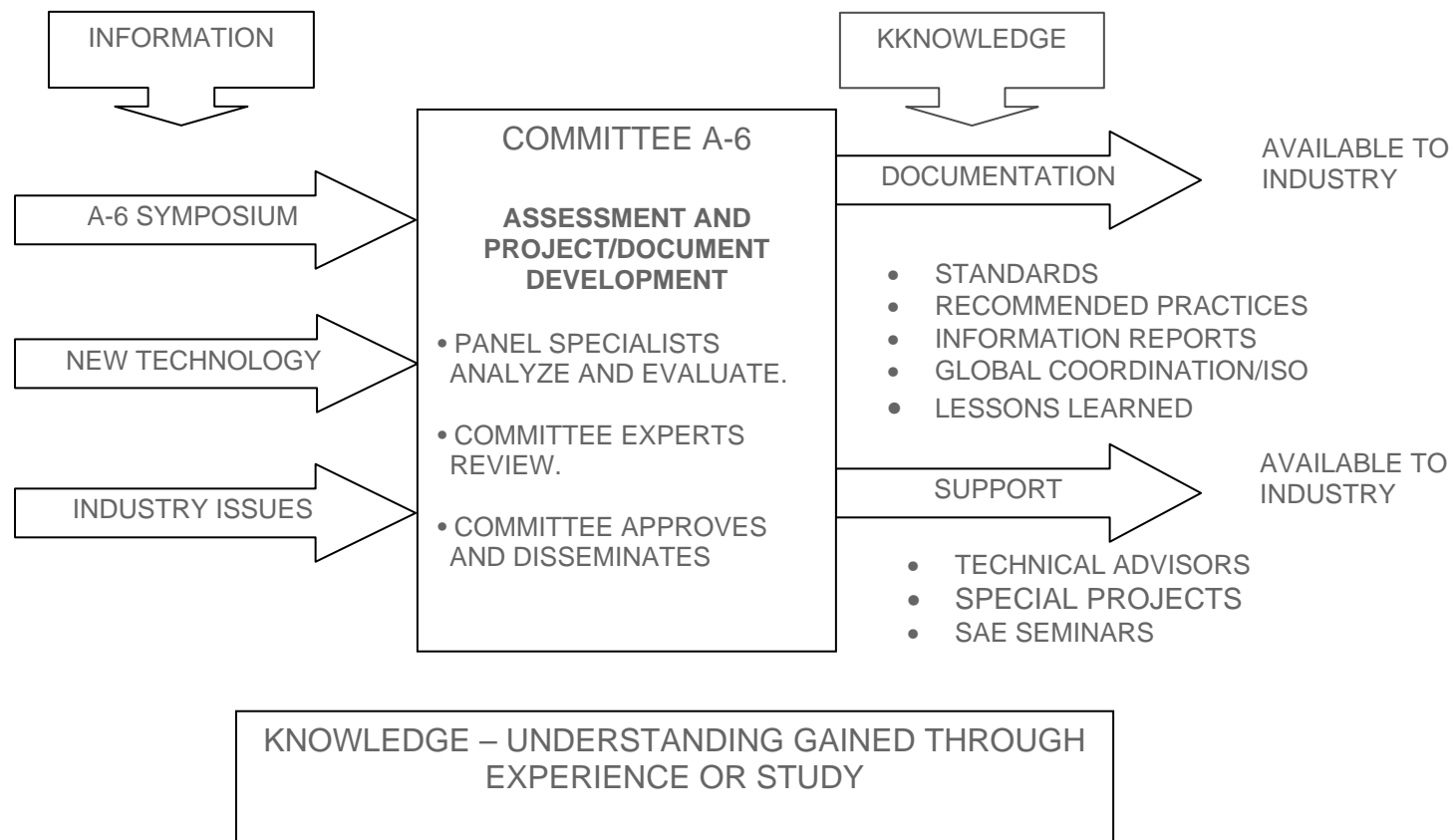
Meetings are held typically in the spring (April) and fall (October) each year. They normally are held in the east USA in the spring and the west USA in the fall. The current plan is to hold a meeting outside the USA every 18-24 months. Foreign meetings in the past have been held in Toronto and Montreal Canada, Toulouse France, Sao Jose dos Campos, Brazil, and Vancouver, BC Canada.

Meetings normally extend over a 4 to 4½ day period with attendance ranging from 100-230 attendees. Attendees come from governmental agencies, industry and academia associated with aerospace actuation, control, and fluid power technologies from all over the world. The industry includes prime manufacturers of air vehicles and companies making components and subsystems. The agenda normally includes different Subcommittee working panels' document development meetings, panel discussion meetings, General Committee A-6 meeting, **and** a Technical Symposium on a related technical topic. There is also a hosted (Sponsored by Company donations) reception for all attendees and a hosted "first timers" welcome get-together..

SAE registration fee for individual attendees is \$175 per meeting, if their company is not an SAE Corporate Investor.

Individuals wishing to attend a meeting should pre-register at the SAE web site; <http://www.sae.org/meetings>. This will allow a faster check-in at the meeting.

The SAE charter for committees includes the preparation, approval and issuance of standards and recommended practices that are used by the industry to design, develop, and manage standardized products and systems. Committee A-6 currently manages over 120 documents which have been prepared by A-6. The process of gathering and transferring technical information and knowledge to a useful documented format for the Industry is outlined below. Published Documents can be ordered from the SAE by using their web site <http://www.sae.org>. A complete listing of A-6 Documents (By Committee and by Subcommittee) can be found in the Public Forum under "Document List".





Membership

Anyone who is affiliated with the aerospace actuation, control, and fluid power industry is welcome to attend the bi-annual meetings. Having an SAE Membership is not a requirement to be an attendee at a Committee A-6 meeting: it just requires a willingness to participate and share information. To become a member of Committee A-6 requires Steering Council approval after a person becomes familiar with the functions of A-6, becomes active in participating in panel discussions, assists in new or the up-date of documents, becomes a regular attendee, and becomes a member of a particular Subcommittee working panel or panels.

Membership in a particular Subcommittee working panel or Committee A-6 entitles you to vote on panel documents.

SAE Membership details are available on the SAE web site



What's New

- The next meeting will be held in **Hamburg, Germany at the Le Meridian Hotel**. The meeting will be held on **9-12 May, 2011**. Details regarding the agenda, etc. will be posted on the SAE A-6 Public Forum web site.
- The Symposium topic for the **Hamburg** meeting is; “**New Flight Control Architectures and Designs**”.
- The next meeting after Hamburg will be held in **Sante Fe, NM at the Hilton Sante Fe**. The meeting will be held on **3-6 October, 2011**.
- If you are “retired” from A-6 and are interested in finding out what is going on, check the **A-6** Public Forum web site and peruse the “Retirees Newsletter”.
- There is considerable activity currently emerging from new concepts in powered flight controls and producing power for Flight Controls.
- The F-35, A380 and A400M are all utilizing Electrohydrostatic Actuators (EHA) for flight controls. The A-380 is currently in service.
- Hydraulic system pressures on the F-35, A380, and 787 aircraft are designed for 5,000psi.
- If you want any information on these concepts or want to contribute any knowledge, come to the next meeting!