

## 2006 Current Fiscal Year Report: Advisory Group on Electron Devices

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### 1. Department or Agency

Department of Defense

### 2. Fiscal Year

2006

### 3. Committee or Subcommittee

Advisory Group on Electron  
Devices

### 3b. GSA Committee No.

383

4. Is this New During Fiscal Year?	5. Current Charter	6. Expected Renewal Date	7. Expected Term Date
No	04/20/2006	04/20/2008	04/19/2008

### 8a. Was Terminated During Fiscal Year?

Yes

### 8b. Specific Termination Authority

Agency  
Determination

### 8c. Actual Term Date

09/30/2006

### 9. Agency Recommendation for Next Fiscal Year

Terminate

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

### 11. Establishment Authority

Agency Authority

### 12. Specific Establishment Authority

DoD Determination

### 13. Effective Date

03/13/1974

### 14. Committee Type

Continuing

### 14c. Presidential?

No

**15. Description of Committee** Scientific Technical Program  
Advisory Board

### 16a. Total Number of Reports

No Reports for  
this Fiscal Year

**17a.** 0 **17b. Closed** 3 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 3  
**Open**

### Meetings and Dates

#### Purpose

The purpose is to review research and development programs which the Military Departments propose to initiate with industry and in their laboratories.

#### Start

#### End

12/06/2005 - 12/05/2005

The purpose is to review research and development programs which the Military Departments propose to initiate with industry and in their laboratories. 02/28/2006 - 02/28/2006

The purpose is to review research and development programs which the Military Departments propose to initiate with industry and in their laboratories. 09/05/2006 - 09/05/2006

**Number of Committee Meetings Listed: 3**

	<b>Current FY</b>	<b>Next FY</b>
<b>18a(1). Personnel</b>		
<b>Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel</b>		
<b>Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel</b>		
<b>Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel</b>		
<b>Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$7,550.00	\$10,000.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$155,000.00	\$245,000.00
<b>18d. Total</b>	\$162,550.00	\$255,000.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

**20a. How does the Committee accomplish its purpose?**

Electron devices play a critical role in military systems in determining overall system performance, reliability and, to a large degree, life cycle costs. Under the leadership of Dr. Robert Wisnieff, Chairman of the Advisory Group on Electron Devices (AGED) plays a key role in strengthening the defense posture of the United States by: --Helping to facilitate the development and maintenance of a comprehensive DoD electronics strategy so that our warfighters have access to the capabilities they need to accomplish their missions. --Providing advice on a continuing basis regarding electron device technologies for the Department of Defense, paying particular attention to technologies which will advance the defense capabilities of the warfighter. --Providing advice on the technology aspects of critical electronic components for the defense electronic supply base. --Advising on significant advances or discoveries in new areas or on anticipated barrier problems that may affect new warfighter capabilities. --Advising on electron device development impact on DoD systems, technical objectives and military payoffs. A key feature of the AGED is its use of consultants from industry and academia to provide expertise and experience in critical electronic and photonic technology areas of interest to DoD. These consultants, together with the AGED's government members, provide a unique and valuable contribution that is not available solely from government representatives. The AGED successfully provides a medium for the interchange of information among the DoD, other interested Federal Government Agencies, and Government contractors. The AGED has sponsored numerous Special Technology Area Reviews (STARs) aimed at providing DoD with background and insight necessary to competently formulate its technology investment strategy. A

STAR on Low Volume High Performance Integrated Circuit Production was conducted on 26-27 October 2005. Its objective was to provide insight and information that may assist the Department of Defense (DoD) in defining and pursuing a revolutionary new capability for the creation of low volume highly flexible high performance integrated circuit production capabilities. In addition, a STAR on Superconducting Technologies was conducted on 1-2 March 2006. The purpose of this STAR was to provide insight and information that may assist the Department of Defense (DoD) in understanding the maturity, potential benefits, and limiting features of digital and mixed signal Superconducting Technologies and to identify and prioritize DoD focus on the identification of applications that may take advantage of this technology. The AGED continues to provide the department a valuable mechanism to evaluate advanced electronic and photonic technologies for applications to defense needs.

**20b. How does the Committee balance its membership?**

The AGED provides balanced points of view both with regard to the fields of interest with respect to military-academic-industrial outlooks regarding how to best sustain the DoD's position in advanced electron device technology. The AGED membership reflects a broad spectrum of electronics and photonics technology expertise.

**20c. How frequent and relevant are the Committee Meetings?**

The AGED meets approximate 6 times per year. The AGED also has approximately 4 Special Technology Area Reviews (STARs) per year. The frequency allows orderly and realistic workloads,

including review of Service-sponsored electron device programs. Meetings, deliberations, reports and recommendations are structured to keep pace with evolving future military needs.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The AGED has been unique throughout its operation, bringing together top government laboratory and management personnel with experienced people from industry and academia to provide expert advice to the Director, Defense Research and Engineering. Its consultant members are leaders in industry and academia. Many are Fellows of the Institute of Electrical and Electronics Engineers (IEEE), members of the National Academy of Engineering and have been accorded recognition by their peers for outstanding professional contributions. AGED's ongoing interactive process between Government, industry and academic leaders in electronics technology allows DoD to achieve the best value from its investments in electronics R&D.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

It is necessary to close the AGED meetings because of the high probability that discussions will involve classified matters of national security. Military user requirements and systems that utilize technologies addressed by AGED are classified and discussed during AGED meetings and studies. These discussions cannot be reasonably aggregated from other topics without seriously diminishing the effectiveness of the meeting.

**21. Remarks**

The committee issued no reports in fiscal year 2006. The salary costs of and travel expenses for

full-time federal employee members of this advisory committee are provided by their respective organizations. They spend only a small fraction of their time at committee meetings.

## Designated Federal Officer

John Stubstad DFO

Committee Members	Start	End	Occupation	Member Designation
Armstrong, Carter	10/04/2005	09/30/2007	L-3 Communications	Special Government Employee (SGE) Member
Barker, Robert	01/01/2004	09/30/2007	Air Force Office of Scientific Research	Regular Government Employee (RGE) Member
Borsuk, Gerald	01/01/2004	09/30/2007	Superintendent, Electronics Science & Technology Division, Naval Research Laboratory	Regular Government Employee (RGE) Member
Byvik, Charles	01/01/2004	09/30/2007	Office of the Director, Defense Research and Engineering, Office of the Secretary of Defense	Regular Government Employee (RGE) Member
Calcaterra, Mark	04/04/2005	09/30/2007	AFRL	Regular Government Employee (RGE) Member
Cox, Charles	01/01/2004	09/30/2007	Photonic Systems, Inc.	Special Government Employee (SGE) Member
Goodman, Matthew	01/01/2004	09/30/2007	Telcordia Technologies	Special Government Employee (SGE) Member
Iafrate, Gerald	01/01/2004	09/30/2007	North Carolina State University	Special Government Employee (SGE) Member

Katehi, Linda	01/01/2004	10/02/2006	University of Illinois	Special Government Employee (SGE) Member
Kelley, Paul	01/01/2004	09/30/2007	Consultant	Special Government Employee (SGE) Member
LaSala, Kenneth	06/01/2002	10/25/2005	KPL Systems	Special Government Employee (SGE) Member
Luhmann, Neville	01/01/2004	12/15/2005	University of California, Santa Barbara	Special Government Employee (SGE) Member
Palkuti, Les	01/01/2004	09/30/2007	Defense Threat Reduction Agency	Regular Government Employee (RGE) Member
Pellegrino, John	01/01/2004	09/30/2007	Director, Sensors & Electronics Devices Directorate, U.S. Army Research Laboratory	Regular Government Employee (RGE) Member
Pierre, Joan	01/01/2004	09/30/2007	Defense Threat Reduction Agency	Regular Government Employee (RGE) Member
Price, Ray	04/04/2005	09/30/2007	DoD	Regular Government Employee (RGE) Member
Ratches, James	01/01/2004	09/30/2007	Army, Communications and Electronics Command	Regular Government Employee (RGE) Member
Ridgley, Richard	04/04/2005	09/30/2007	DoD	Regular Government Employee (RGE) Member
Stubstad, John	01/01/2004	09/30/2007	Space and Sensor Technolgy, Government ODDR&E/DUSD(S&T)/Sensor Systems	Regular Government Employee (RGE) Member

Van				Regular
Vechten, Deborah	06/06/2005	09/30/2007	Office of Naval Research	Government Employee (RGE) Member
Weil, Karen	01/01/2004	09/30/2007	Consultant	Special Government Employee (SGE) Member
Wisneff, Robert	01/01/2004	09/30/2007	IBM T. J. Watson Research Center	Special Government Employee (SGE) Member
Zolper, John	01/01/2004	09/30/2007	Defense Advanced Research Agency	Regular Government Employee (RGE) Member

**Number of Committee Members Listed: 23**

### Narrative Description

AGED supports DDR&E's mission by bringing together experts from industry, academia, and the Services and Agencies. This synergistic approach enables the group to analyze, evaluate, and make recommendations on key DoD scientific and technology issues related to electronics and photonics.

### What are the most significant program outcomes associated with this committee?

Checked if  
Applies

Improvements to health or safety	<input type="checkbox"/>
Trust in government	<input type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input type="checkbox"/>



### Outcome Comments

NA

### What are the cost savings associated with this committee?

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

### Cost Savings Comments

NA

### What is the approximate Number of recommendations produced by this committee for the life of the committee?

3

### Number of Recommendations Comments

This is the number of recommendations since the AGED was reformed with a new charted in 2004.

### What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

100%

### % of Recommendations Fully Implemented Comments

This is the number of recommendations since the AGED was reformed with a new charted in 2004.

### What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

0%

**% of Recommendations Partially Implemented Comments**

NA

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Feedback is provided by the DFO.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input type="checkbox"/>
Reallocated resources	<input type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

NA

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input type="checkbox"/>
Publications	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

## **Access Comments**

DTIC