

## 2019 Current Fiscal Year Report: Homeland Security Science and Technology Advisory Committee

Report Run Date: 06/16/2019 10:43:21 AM

<b>1. Department or Agency</b>				<b>2. Fiscal Year</b>
Department of Homeland Security				2019
<b>3. Committee or Subcommittee</b>				<b>3b. GSA Committee No.</b>
Homeland Security Science and Technology Advisory Committee				20330
<b>4. Is this New During Fiscal Year?</b>	<b>5. Current Charter</b>	<b>6. Expected Renewal Date</b>	<b>7. Expected Term Date</b>	
No	07/12/2017	07/12/2019		
<b>8a. Was Terminated During FiscalYear?</b>	<b>8b. Specific Termination Authority</b>	<b>8c. Actual Term Date</b>		
No				
<b>9. Agency Recommendation for Next FiscalYear</b>	<b>10a. Legislation Req to Terminate?</b>	<b>10b. Legislation Pending?</b>		
Continue	Not Applicable	Not Applicable		
<b>11. Establishment Authority</b>	Agency Authority			
<b>12. Specific Establishment Authority</b>	<b>13. Effective Date</b>	<b>14. Committee Type</b>	<b>14c. Presidential?</b>	
6 U.S.C. section 451	11/25/2002	Continuing	No	
<b>15. Description of Committee</b>	National Policy Issue Advisory Board			
<b>16a. Total Number of Reports</b>	No Reports for this FiscalYear			
<b>17a. Open Meetings and Dates</b>	<b>17b. Closed</b>	<b>17c. Partially Closed</b>	<b>Other Activities</b>	<b>17d. Total</b>
No Meetings	0	0	0	0

	Current FY	Next FY
<b>18a(1). Personnel Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$0.00
<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>	\$0.00	\$0.00
<b>18d. Total</b>	\$0.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

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

The HSSTAC provides independent, consensus scientific and technical advice and recommendations to the Under Secretary for Science and Technology who leads the Department of Homeland Security (DHS) Science and Technology Directorate (S&T). Its activities focus on the S&T mission to strengthen America's security and resiliency by providing knowledge products and innovative technology solutions for the Homeland Security Enterprise. The committee addresses science and technology needs and trends, management processes and organizational constructs, and other matters of special interest to the Under Secretary for S&T and will ensure the identification of new technologies in those areas that strengthen homeland security. It will support the priority needs of DHS S&T's Homeland Security Advanced Research Projects Agency and First Responders Group. Upon request, the committee will provide scientifically- and technically-based advice to the Homeland Security Advisory Council.

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

To ensure both stimulating and pragmatic opinions, the committee includes public and private sector perspectives from industry, academe and government (including former members of Federal Government or former or current members of state or local government who can provide the perspective of government implementation of any recommendations). Members are eminent authorities in the fields of science and technology relevant to the homeland security enterprise, acquisition processes, first responder needs, strategy and management of research development organizations, government-industry partnerships, and operational experience in a homeland security context. To ensure both broad and deep expertise, membership will represent both technical expertise and management or operational experience. The technical experts will include research scholars who have published in peer-reviewed journals.

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

Committee meetings are held four times per year or at the request of the chair and the approval of the DFO. The committee meeting agenda topics are in direct support of the strategic and tactical priorities of the Science and Technology Directorate. Based on input requested from the Under Secretary and senior leaders, the meetings are used to solicit active discussions and feedback on select mission areas. One new subcommittee was formed in FY18: The Technology Scouting Partnerships Subcommittee

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

In the world of science, we rely on external perspectives and new research to stay in touch with both cutting edge and state-of-the-art solutions. This group of experts will help us to avoid stale outdated thinking. The committee permits S&T to be presented with newly evolving innovative research, real world deployment considerations and risk mitigation strategies by trusted advisors. Because members are working in private sector, academia and local governments, their access to cutting edge solutions, best practices and international advances expand the lens through which we view solutions and challenges us to be more aware of leading technologies, financing, management practices and solution development strategies. The members help us address both known and emerging threats more fully and coherently. The committee gives us ready access to other experts when needed through extensions to their rich network of colleagues who can bring additional expertise to bear on a particular topic. The expertise and broader context that this committee provides is not available within S&T or DHS as a whole, and there are no existing committees that provide or could provide the assistance that the HSSTAC provides.

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

It is necessary to close and/or partially close committee meetings when they concern classified information, sensitive law enforcement information, Homeland Security sensitive information, and/or any other topic area related to national defense. Meetings will only be closed in accordance with 5 U.S.C. Sec 552b, the Government in the Sunshine Act.

**21. Remarks**

The HSSTAC is still awaiting the announcement of the new Under Secretary for Science and Technology (USST). During FY18 the committee held four full committee meetings and 12 subcommittee meetings. The committee has provided valuable recommendations to the Under Secretary for Science and Technology. A majority of the HSSTAC work is completed through subcommittees that provide expert advice through the Committee to the USST. The subcommittees developed two whitepapers on topics vital to securing the homeland. The Social Media Working Group for Emergency Services and Disaster Management Subcommittee created a report on Countering Misinformation, Rumors, and Fake News on Social Media in Emergencies and the Technology Scouting Partnerships Subcommittee provided a whitepaper covering Recommendations on Technology Scouting Partnerships.

**Designated Federal Officer**

Michel Kareis DFO

<b>Committee Members</b>	<b>Start</b>	<b>End</b>	<b>Occupation</b>	<b>Member Designation</b>
Chan, Vincent	10/01/2015	10/01/2018	Professor, Electrical Engineering and Computer Science, MIT	Special Government Employee (SGE) Member
Collie, Byron	10/01/2015	10/01/2018	Technology Fellow and Director of Cyber Intelligence for the Goldman Sachs Group	Special Government Employee (SGE) Member
Decker, James	10/01/2015	10/01/2018	Principal, Decker Garman Sullivan & Associates, LLC	Special Government Employee (SGE) Member
Dubno, Daniel	10/01/2015	10/01/2018	Executive Director, The Hourglass Initiative	Special Government Employee (SGE) Member
Haimes, Yacov	10/01/2015	10/01/2018	L.R. Quarles Professor of Systems & Information Engineering and of Civil & Environmental Engineering Founding Director, University of Virginia	Special Government Employee (SGE) Member
Haseltine, Eric	10/01/2015	10/01/2018	President, Haseltine Partners, LLC	Special Government Employee (SGE) Member
Hendler, James	10/01/2015	10/01/2018	Director, Institute for Data Exploration and Applications and the Tetherless World Professor of Computer, Web, and Cognitive Sciences, RPI	Special Government Employee (SGE) Member
Olsen, Kathie	10/01/2015	10/01/2018	Founder, Managing Director, ScienceWorks	Special Government Employee (SGE) Member
Parker, Gerry	10/01/2015	10/01/2018	Associate Dean for Global One Health, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University Health Center	Special Government Employee (SGE) Member
Schenkel, Gary	10/01/2015	10/01/2018	Consultant, Public Safety and Smart Cities, Mission Critical Solutions	Special Government Employee (SGE) Member
Schwartz, James	10/01/2015	10/01/2018	Deputy County Manager, Arlington County, Virginia	Special Government Employee (SGE) Member
Toohey, Brian	10/01/2015	10/01/2018	Senior Vice President for International Advocacy, PharRMA	Special Government Employee (SGE) Member
Whelan, David	10/01/2015	10/01/2018	Professor of Engineering, University of California San Diego	Special Government Employee (SGE) Member
Williams, Christina	10/01/2015	10/01/2018	Chief Financial Officer, Sloan School of Business, Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Willke, Theodore	10/01/2015	10/01/2018	Senior Principal Engineer, Intel Labs, Intel Corporation	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 15**

### **Narrative Description**

This committee supports the DHS S&T Mission to “strengthen America’s security and resiliency by providing knowledge products and innovative technology solutions for the Homeland Security Enterprise (HSE),” with its specific emphasis on members who have

expertise with technology innovations and knowledge products, and who have experience applying them to the HSE. More specifically, this committee addresses DHS S&T's five goals, as follows: (1) "Screening at Speed: Security that Matches the Pace of Life" Noninvasive screening at speed will provide for comprehensive threat protection while adapting security to the pace of life rather than life to security. In this area the committee will help strengthen DHS security practices; (2) "Trusted Cyber Future: Protecting Privacy, Commerce, and Community" In a future of increasing cyber connections, underlying digital infrastructure will be self-detecting, self-protecting, and self-healing. Users will trust that information is protected, illegal use is deterred, and privacy is not compromised. Security will operate seamlessly in the background. In this area, committee members will ensure the latest technology in cyber security is being used; (3) "Enable the Decision Maker: Actionable Information at the Speed of Thought" Predictive analytics, risk analysis, and modeling and simulation systems will enable critical and proactive decisions to be made based on the most relevant information, transforming data into actionable information. In this area, the committee will help increase awareness of cutting-edge research and developments by virtue of its role as expert external advisors, selected specifically for their knowledge in these areas; (4) "Responder of the Future: Protected, Connected, and Fully Aware" The responder of the future is threat-adaptive and cross-functional. In this area, the committee members will provide subject matter expertise on the needs of the responder of the future. (5) "Resilient Communities: Disaster-Proofing Society" Critical infrastructure of the future will be designed, built, and maintained to withstand naturally occurring and man-made disasters. Decision makers will know when a disaster is coming, anticipate the effects, and use already-in-place or rapidly deployed countermeasures to shield communities from negative consequences. Resilient communities struck by disasters will not only bounce back, but bounce forward. In this area, the committee members will help ensure constructive use of federal facilities and of resources within academia through their own networks and by specifically addressing the need to leverage other's technology.

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

Checked if Applies

- |   |                                     |
|---|-------------------------------------|
| Improvements to health or safety                  | <input checked="" type="checkbox"/> |
| Trust in government                               | <input checked="" 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 checked="" type="checkbox"/> |
| Increased customer satisfaction                   | <input checked="" type="checkbox"/> |
| Implementation of laws or regulatory requirements | <input type="checkbox"/>            |

Other

**Outcome Comments**

Not Applicable

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

Checked if Applies

None

Unable to Determine

Under \$100,000

\$100,000 - \$500,000

\$500,001 - \$1,000,000

\$1,000,001 - \$5,000,000

\$5,000,001 - \$10,000,000

Over \$10,000,000

Cost Savings Other

**Cost Savings Comments**

Not Applicable

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

48

**Number of Recommendations Comments**

The committee met four times in FY18. A report and a whitepaper were generated with advice and guidance for S&T and the Under Secretary for Science and Technology. They remain in draft through the completion of the current FY. The subcommittees met frequently and contributed greatly to the high costs in the "Other" category.

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

50%

**% of Recommendations Fully Implemented Comments**

Not Applicable

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

44%

**% of Recommendations Partially Implemented Comments**

Not Applicable

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

Yes  No  Not Applicable

**Agency Feedback Comments**

The Under Secretary provides verbal feedback to members at meetings and informally to the committee chairman. The federal staff for the committee also provides feedback at meetings.

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

Checked if Applies

- Reorganized Priorities
- Reallocated resources
- Issued new regulation
- Proposed legislation
- Approved grants or other payments
- Other

**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
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site

Publications



Other



**Access Comments**

<http://www.dhs.gov/st-hsstac>