

***The Interface of Science, Technology & Security:
Areas of Most Concern, Now and Ahead
APCSS Seminar
Honolulu, Hawaii
4 - 8 October 2010***

Monday 4 Oct 2010

Arrivals and hotel check-in

- 1645-1700 **Registration** Lanai
- 1700-1800 **Keynote Address (followed by Q & A and brief self-introductions)** Auditorium
- Introduction: Lieutenant General (Ret) Ed Smith, APCSS
 - Speaker: Dr. Arun Majumdar, Director, Advanced Research Projects Agency-Energy (ARPA-E)
- 1800-1930 **Welcome Reception** Lanai
(Hosted by The APCSS Foundation)

Tuesday 5 Oct 2010

- 0730-0800 **Registration and Morning Coffee** Lanai
- 0800-0925 **Opening Remarks, Overview of Workshop Flow, Initial Theme Canvassing** CCR
- Lieutenant General (Ret) Ed Smith, Director, Asia-Pacific Center for Security Studies (APCSS)
- 0925-0930 **Administrative Announcements** CCR
- Dr. Virginia Watson, APCSS
- 0930-1000 **Group Photo and Break** Front Lawn & Lanai
- 1000-1145 **Plenary Session 1: Thoughts on Current Security Landscape** CCR
- Moderator: Lieutenant General (Ret) Ed Smith, APCSS
 - Mr. Ralph Cossa, Pacific CSIS
 - Dr. Mohan Malik, APCSS
 - Prof. Kerry Nankivell, APCSS
- Question and Answer Session to follow*

DAY ONE (Afternoon): Tuesday 5 Oct 2010

1145-1230	Working Lunch: Open Discussions	Lanai
1230-1345	Plenary Session 2: Thoughts on Current Science & Technology (S&T) Landscape <ul style="list-style-type: none">• Moderator: Lieutenant General (Ret) Ed Smith, APCSS• Dr. Virginia Watson, APCSS• Dr. J. Scott Hauger, APCSS• Dr. William Wieninger, APCSS <i>Question and Answer Session to follow</i>	CCR
1345-1400	Break	Lanai
1400-1405	Break-out Group Discussion Focus	CCR
1405-1600	Facilitated Break-out Group Discussions: “Defining the Framework” Discussion Focus: Group 1: Identify how security officials capture and use the new knowledge that the scientific and engineering community creates for the common good. <ul style="list-style-type: none">• Facilitator: Prof. Shyam Tekwani, APCSS• Recorder: LTC David Longbine, APCSS Group 2: Identify how officials from the scientific and engineering community better inform security officials about emerging and potential security impacts/implications related to new S&T knowledge being created. <ul style="list-style-type: none">• Facilitator: Dr. Virginia Watson, APCSS• Recorder: COL Stephen Myers, APCSS	B118 & B119
<p>▶ For this discussion period only, Group 1 consists of Security Practitioners and Group 2 consists of Scientists and Technologists.</p> <p>▶ For all following discussion periods, Group 1 and 2 will consist of a mix of Security Practitioners, Scientists and Technologists</p>		
1600-	Evening at Leisure	

DAY TWO: Wednesday 6 Oct 2010

0700-0800	Morning Coffee	Lanai
0800-0805	Review Plan of the Day Lieutenant General (Ret) Ed Smith, Director, Asia-Pacific Center for Security Studies (APCSS)	CCR
0805-0915	Group Brief-backs on Day 1 Findings & Open Discussion • Moderator: Lieutenant General (Ret) Ed Smith, APCSS (each group brief-back <u>allotted 15 minutes</u>)	CCR
0915-0930	Break	Lanai
0930-1100	Plenary Session 3: Update on Science & Technology Developments with Significant Security Implications Category #1: Information Technology • Moderator: Mr. Shyam Tekwani, APCSS • Mr. Richard Schaeffer, Riverbank Associates, (US) • Dr. Robert Childs, National Defense University (US) • Dr. Igor V. Kotenko, Russian Academy of Sciences (Russia) <i>Questions and Answer Session to follow</i>	CCR
1100-1115	Break	Lanai
1115-1245	Plenary Session 4: Update on Science & Technology Developments with Significant Security Implications Category #2: Biotechnology • Moderator: Dr. Virginia Watson, APCSS • Dr. Lynn Jelinski, President, Sunshine Consultants (US) • Dr. Ashley Dombkowski, MPM Capital (US) • Dr. Cong Cao, Levin Institute Center for STI in China (US) <i>Questions and Answer Session to follow</i>	CCR
1245-1330	Working Lunch: Open Discussion	Lanai
1330-1335	Break-out Group Discussion Focus	CCR
1335-1530	Facilitated Break-out Group Discussions: “Identifying & Prioritizing” Discussion Focus: Group 1 and Group 2: Identification, prioritization, and rationale for Top 4 S&T initiatives/phenomena from <u>combined</u> morning session Categories #1 & #2 in terms of security-related impacts, challenges & opportunities, and policy implications.	B118 & B119
1530-1545	Break	Lanai
1545-1700	Group Brief-backs on Day 2 Findings & Open Discussion • Moderator: Lieutenant General (Ret) Ed Smith, APCSS (each group brief-back <u>allotted 15 minutes</u>)	CCR
1700-1705	Plan for the Next Day • Lieutenant General (Ret) Ed Smith, APCSS	
1800-	Optional Shopping Trip to Ala Moana Center (van transport)	Hale Koa Lobby

DAY THREE: Thursday 7 Oct 2010

0730-0800	Morning Coffee	Lanai
0800-0805	Review Plan of the Day Lieutenant General (Ret) Ed Smith, Director, Asia-Pacific Center for Security Studies (APCSS)	CCR
0805-0930	Plenary Session 5: Update on Science & Technology Developments with Significant Security Implications Category #3: Energy <ul style="list-style-type: none">• Moderator: Mr. Dave Shanahan, Deputy Dean, APCSS• Ms. Lydia Powell, Observer Research Foundation (India)• Dr. In-ho Kim, Agency for Defense Development (Republic of Korea)• Dr. Elizabeth Cantwell, Lawrence Livermore National Laboratory (US) <i>Questions and Answer Session to follow</i>	CCR
0900-0945	Break	Lanai
0945-1115	Plenary Session 6: Update on Science & Technology Developments with Significant Security Implications Category #4: Environment <ul style="list-style-type: none">• Moderator: Dr. J. Scott Hauger, APCSS• Dr. Benjamin Santer, Lawrence Livermore National Laboratory (US)• Dr. David Brunckhorst, University of New England (Australia)• Dr. Sumeet Saksena, East-West Center (India) <i>Questions and Answer Session to follow</i>	CCR
1115-1200	Working Lunch: Open Discussion	Lanai
1200-1205	Break-out Group Discussion Focus	CCR
1205-1400	Facilitated Break-out Group Discussions: “Identifying & Prioritizing” Discussion Focus: Group 1 and Group 2: Identification, prioritization, and rationale for Top 4 S&T initiatives/phenomena from <u>combined</u> morning session Categories #3 & #4 in terms of security-related impacts, challenges & opportunities, and policy implications.	B118 & B119
1400-1415	Break	Lanai
1415-1515	Group Brief-backs on Day 3 Findings & Open Discussion <ul style="list-style-type: none">• Moderator: Lieutenant General (Ret) Ed Smith, APCSS (each group brief-back <u>allotted 15 minutes</u>)	CCR
1515-1530	Break	Lanai
1530-1630	Keynote #2: Global Nuclear Risk Reduction by Science Diplomacy <ul style="list-style-type: none">• Introduction: Dr. Virginia Watson, APCSS• Speaker: Dr. Siegfried Hecker, Co-director, Center for International Security and Cooperation (CISCA), Stanford University Director Emeritus, Los Alamos National Laboratory <i>Questions and Answer Session to follow</i>	CCR

- 1630-1640 **Plan for the Next Day** CCR
 • Lieutenant General (ret) Ed Smith, APCSS
- 1640-1700 **Enduring Links to APCSS: Staying Connected** CCR
 • Ms. Mary Markovinovic, APCSS
 • Mr. John Gasner, APCSS
- 1800- **Optional No-host Hawaiian Dinner and Show (“Luau”)** Hale Koa Hotel

DAY FOUR: Friday 8 Oct 2010

- 0800-0830 **Morning Coffee** Lanai
- 0830-1015 **Facilitated Break-Out Group Preparations of Final Briefings: “Identifying Collaborative Opportunities”** B118 & B119
Discussion Focus:
 Group 1 and Group 2: Identify, From All S&T Categories, The **Top 3** S&T Initiatives/Phenomena Likely To Have The Most Significant Global Impacts During The Next 20 Years...And Focus Interagency, Regional And Global Interface Opportunities To Prepare Collaboratively
- 1015-1045 **Break** Lanai
- 1045-1215 **Break-out Groups’ Final Briefings to Dr. William Perry, former U.S. Secretary of Defense and Dr. Siegfried Hecker, Co-Director - CISCA (Stanford University)** CCR
 • Moderator: Lieutenant General (Ret) Ed Smith, APCSS
 (Each group brief-back allotted 25 minutes)
Question and Answer Session to follow each presentation
- 1215-1330 **Working Lunch: Open Discussion** Lanai
Participants Complete On-line Workshop Evaluation
- 1330-1445 **Response to Final Briefings by Dr. William Perry and Dr. Siegfried Hecker (Followed by Open Discussion)** CCR
 • Moderator: LTG (Ret) Ed Smith, APCSS
- 1445-1515 **Final Thoughts/Closing Remarks** CCR
 • LTG (Ret) Ed Smith, APCSS
 • Dr. William Perry

Saturday 9 Oct 2010 - Departures