

**AFRL**

# 2022 AFOSR Spring Review

April 19-29, 2022 | Arlington, VA -hybrid

Basic Research Innovation Collaboration Center (BRICC)  
4100 North Fairfax Drive, Suite 400 Arlington, VA 22203**Agenda Day 1 | Tuesday, April 19, 2022**

Dress Policy: Business (Civilian) / Service Dress (Military)

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>AFOSR and Science and Engineering (RT) Organizational Leadership and Initiatives</b>		
<b>0800</b>	Welcome/Introduction of Maj Gen Pringle	Dr. William (Pat) Roach, ST, Chief Scientist
<b>0805</b>	Opening Remarks	Maj Gen Heather Pringle, AFRL CC
<b>0815</b>	Director's Remarks/Intro of Dr. Naik	Dr. Shery Welsh, SES, AFOSR Director
<b>0825</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>0830</b>	AFOSR Chief Scientist's Overview	Dr. William (Pat) Roach, ST, Chief Scientist
<b>0900</b>	Deputy Chief Scientist Remarks & Intramural Programs	Dr. Leslie Blaha, Deputy Chief Scientist
<b>0930</b>	Science Analytics Initiatives	Dr. Enrique (Riq) Parra, Chief Analytics Officer
<b>1000</b>	<b>BREAK</b>	
<b>1018</b>	RT Division Overview	Col Daniel Galton, RT Division Chief
<b>1055</b>	RT Tech Advisor Remarks	Dr. Milton (Van) Blackwood, RT Tech Advisor
<b>1115</b>	RTA Branch Overview	Lt Col Matt Krisak, RTA Branch Chief
<b>1135</b>	RTB Branch Overview	Dr. John Luginsland, Acting RTB Branch Chief
<b>1155</b>	RTC Branch Overview	Mr. Neville Thompson, RTC Branch Chief
<b>1215</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1220</b>	<b>BREAK</b>	
<b>1235</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1235</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1305</b>	Day 1 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 2 | Wednesday, April 20, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>RTC Programs</b>		
<b>0810</b>	SFFP, STEM, FOE, ASSURE, AFRL Scholars	Dr. Kimberly Jacoby Morris, RTC
<b>0845</b>	DURIP, MURI, DESI, GRC Bundle	Ms. Katie Wisecarver, RTC
<b>0920</b>	<b>BREAK</b>	
<b>0935</b>	PECASE, YIP, NDSEG, STFP	Ms. Ellen Robinson, RTC
<b>1010</b>	HBCU/MSI, DEPSCoR	Mr. Edward Lee, RTC
<b>1045</b>	SBIR, STTR	Dr. Ray Moszee, RTC
<b>1120</b>	USAFA, AFIT Programs	Capt Andrew Cady, RTC
<b>1145</b>	<b>BREAK</b>	
<b>International Office (IO) Organizational Leadership</b>		
<b>1200</b>	IO Division Overview	Col Timothy Russell, IO Division Chief
<b>1235</b>	IO Tech Advisor Remarks	Dr. Barrett Flake, IO Tech Advisor
<b>1255</b>	ION Branch Overview	Dr. Tom Kim, ION Branch Chief
<b>1325</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1330</b>	<b>BREAK</b>	
<b>1345</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1345</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1415</b>	Day 2 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 3 | Thursday, April 21, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES, AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>International Office (IO) Leadership, Continued</b>		
<b>0810</b>	IOE Branch Overview	Col (S) Melanie Presuto, IOE
<b>0830</b>	IOA and IOM Branch Overviews	Dr. Jermont Chen, IOA
<b>0900</b>	Diverse Set of IOM Programs	Dr. Geoff Andersen, IOM
<b>0930</b>	IOS Branch Overview & Mixed Portfolio	Lt Col Dan Montes, IOS Lt Col Chris Carson, IOS
<b>1005</b>	<b>BREAK</b>	
<b>Dr. George F. Smoot Session International Office (IO)</b>		
<b>1020</b>	Section Introduction	Dr. William (Pat) Roach, ST, Chief Scientist
<b>1025</b>	Space Science	Dr. Stacie Williams, Space Science Architect
<b>1100</b>	Space Science	Dr. Julie Moses, RTB
<b>1135</b>	<b>BREAK</b>	
<b>1150</b>	Physics of Sensing	Dr. Michael Yakes, RTB
<b>1225</b>	Space Domain Awareness and Space Weather	Dr. Bradford Barrett, IOS
<b>1300</b>	Space Science	Maj Grant Thomas, IOE
<b>1325</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1330</b>	<b>BREAK</b>	
<b>1345</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1345</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1415</b>	Day 3 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 4 | Friday, April 22, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Sheldon Glashow, Dr. Steven Weinberg, and Dr. Abdus Salam Session</b>		
<b>0810</b>	Atomic & Molecular Physics	Dr. Boyan Tabakov, RTB
<b>0845</b>	Plasma, Electro-energetic Physics	Dr. John Luginsland, RTB
<b>0920</b>	<b>BREAK</b>	
<b>0935</b>	Directed Energy	Dr. Nate Lockwood, IO
<b>1010</b>	Electromagnetics	Dr. Arje Nachman, RTB
<b>1045</b>	IOA Quantum Portfolio	Lt Col Michael Richards, IOA
<b>1110</b>	<b>BREAK</b>	
<b>1125</b>	Condensed Matter Physics	Dr. Jiwei Lu, RTB
<b>1200</b>	Aerospace Materials for Extreme Environments	Dr. Ali Sayir, RTB
<b>1235</b>	<b>BREAK</b>	
<b>1250</b>	Quantum Information Sciences	Dr. Grace Metcalfe, RTB
<b>1325</b>	Physics and Space Weather	Dr. Scott Dudley, IOE
<b>1400</b>	<b>SHORT BREAK</b>	
<b>1410</b>	Ultra-short Pulse Laser-Matter Interactions	Dr. Andrew Stickrath, RTB
<b>1445</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1450</b>	<b>BREAK</b>	
<b>1505</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1505</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1535</b>	Day 4 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 5 | Monday, April 25, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Jack Kilby Session</b>		
<b>0810</b>	GHz-THz Electronics	Dr. Ken Goretta, RTA
<b>0845</b>	Optoelectronics & Photonics	Dr. Gernot Pomrenke, RTB
<b>0920</b>	<b>BREAK</b>	
<b>0935</b>	Agile Science for Test and Evaluation	Dr. Brett Pokines, RTA
<b>1010</b>	Sensors and Microelectronics	Dr. Attila Szep, IOE
<b>1045</b>	<b>BREAK</b>	
<b>1100</b>	Sensors, Electromagnetics, and Device Physics	Dr. Tony Kim, IOA
<b>1135</b>	Dynamic Data & Information Processing	Dr. Erik Blasch, RTA
<b>1210</b>	<b>BREAK</b>	
<b>1225</b>	Cognitive and Computational Neuroscience	Dr. Hal Greenwald, RTA
<b>1300</b>	Information Science	Dr. Akira Namatame, IOA
<b>1325</b>	Science of Information, Computation, Learning & Fusion	Dr. Richard (Doug) Riecken, RTA
<b>1400</b>	<b>BREAK</b>	
<b>1415</b>	Trust and Influence	Dr. Laura Steckman, RTA
<b>1450</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1455</b>	<b>BREAK</b>	
<b>1510</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1510</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1540</b>	Day 5 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 6 | Tuesday, April 26, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Yoichiro Nambu Session</b>		
<b>0810</b>	Dynamical Systems & Control Theory	Dr. Frederick Leve, RTA
<b>0845</b>	Computational Mathematics	Dr. Fariba Fahroo, RTA
<b>0920</b>	Information Assurance & Cyber Security	Dr. Tristan Nguyen, RTA
<b>0955</b>	<b>BREAK</b>	
<b>1010</b>	Mathematical Optimization	Dr. Warren Adams, RTA
<b>1045</b>	Complex Networks	Dr. Don Wagner, RTA
<b>1120</b>	Ops Research and Applied Mathematics	Lt Col Mark Friend, IOE
<b>1155</b>	<b>BREAK</b>	
<b>Dr. Ragnar Granit Session</b>		
<b>1210</b>	Human Performance and Biosystems	Dr. Patrick Bradshaw, RTB
<b>1245</b>	Life Sciences	Dr. Nandini Iyer, IOE
<b>1322</b>	<b>BREAK</b>	
<b>1340</b>	Biophysics	Dr. Sofi Bin-Salomon, RTB
<b>1415</b>	Biophysics, Behavioral Science, Mathematics	Lt Col Kris Ahlers, IOA
<b>1450</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1455</b>	<b>BREAK</b>	
<b>1510</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1510</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1540</b>	Day 6 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 7 | Wednesday, April 27, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Paul Flory Session</b>		
<b>0810</b>	Organic Materials Chemistry	Dr. Kenneth Caster, RTB
<b>0845</b>	Chemistry, Materials and Biological Sciences	Dr. Stacy Manni, IOS
<b>0920</b>	Molecular Dynamics & Theoretical Chemistry	Dr. Michael Berman, RTB
<b>0955</b>	<b>BREAK</b>	
<b>Dr. Ilya Prigogine Session</b>		
<b>1010</b>	Energy, Combustion & Non-Equilibrium Thermodynamics	Dr. Chiping Li, RTA
<b>1045</b>	Aeronautical Sciences	Dr. Douglas Smith, IOE
<b>1120</b>	Hypersonic Modeling for Guidance, Navigation and Control	Dr. Garrison Lindholm, IOA
<b>1145</b>	<b>BREAK</b>	
<b>1200</b>	High-Speed Aerodynamics	Dr. Sarah Popkin, RTA
<b>1235</b>	Unsteady Aerodynamics & Turbulent Flows	Dr. Gregg Abate, RTA
<b>1310</b>	<b>BREAK</b>	
<b>1325</b>	Propulsion and Power	Dr. Mitat Birkan, RTA
<b>1400</b>	Aerospace Sciences	Lt Col Ryan Carr, IOA
<b>1435</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1440</b>	<b>BREAK</b>	
<b>1455</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1455</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1525</b>	Day 7 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 8 | Thursday, April 28, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0700 / 0745</b>	<b>ZOOM Government Login / In-person Check-in</b>	
<b>0800</b>	Opening Comments	Dr. Shery Welsh, SES, AFOSR Director
<b>0805</b>	Introduction of SME Panelists	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Nicolaas Bloembergen, Dr. Arthur Schawlow, and Dr. Kai Siegbahn Session</b>		
<b>0810</b>	Aerospace Composite Materials	Dr. Ming-Jen Pan, RTA
<b>0845</b>	Mechanics of Multifunctional Materials and Microsystems	Dr. Byung-Lip (Les) Lee, RTB
<b>0920</b>	<b>BREAK</b>	
<b>0935</b>	Materials Discovery and Manufacturing Science	Dr. Jeremy Knopp, IOA
<b>1010</b>	Materials, Chemistry and Nanoscience	Dr. Todd Rushing, IOA
<b>1045</b>	Digital Strategies for Aircraft Structures and Robotics	Dr. Fumio Kojima, IOA
<b>1110</b>	Closing Remarks for Day	Dr. Shery Welsh, SES, AFOSR Director
<b>1115</b>	<b>BREAK</b>	
<b>1130</b>	SME Panel Only—Closed Door Session (Runs concurrently with AFOSR Leadership Session)	
<b>1130</b>	AFOSR Leadership—Closed Door Session (Runs concurrently with SME Panel Session)	
<b>Approx 1200</b>	Day 8 Hot Wash for Organizing Committee	
<b>REVIEW ADJOURNS FOR THE DAY</b>		

## Agenda Day 9 | Friday, April 29, 2022

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)  
 Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
<b>0800</b>	<b>In-person Registration and ZOOM Government Login</b>	
<b>0830</b>	Tech SME Panel Only-- Closed Door Session	
<b>1200</b>	SME Panel Out Brief	
<b>REVIEW ADJOURNS</b>		

## **Acronyms:**

AFIT	Air Force Institute of Technology
AFOSR	Air Force Office of Scientific Research
AFRL	Air Force Research Laboratory
DARPA	Defense Advanced Research Projects Agency
DEPSCoR	Defense Established Program to Stimulate Competitive Research
DESI	Defense Enterprise Science Initiative
DURIP	Defense University Research Instrumentation Program
FOE	Frontiers of Engineering
HBCU/MSI	Historically Black Colleges and Universities / Minority Serving Institutions
GRC	Gordon Research Conference
IO	International Office
IOA	International Office, Asia
IOE	International Office, Europe
IOM	International Office, Australia
ION	International Office, North America
IOS	International Office, South America
MURI	Multidisciplinary University Research Initiative
NDSEG	National Defense Science and Engineering Graduate
PECASE	Presidential Early Career Awards for Scientists and Engineers
RT	Science and Engineering
RTA	Engineering and Complex Systems
RTB	Physical and Biological Sciences
RTC	Science and Engineering Collaboration
SAF/AQR	Secretary of the Air Force for Acquisition and Research
SBIR	Small Business Innovation Research
SES	Senior Executive Service
SFFP	Summer Faculty Fellowship Program
SME	Subject Matter Expert
ST	Senior Technologist
STEM	Science, Technology, Engineering, and Mathematics
STFP	Science and Technology Fellowship Program
STTR	Small Business Technology Transfer Program
USAFA	United States Air Force Academy
YIP	Young Investigator Research Program