

**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 | Wednesday, April 19, 2022

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

Time	Topic	Speaker
7:30	In-person Registration/Logon	
AFOSR and RT Organizational Leadership and Initiatives		
8:00	Welcome and Introduction of Maj Gen Pringle	Dr. William (Pat) Roach, ST Chief Scientist
8:05	Opening Remarks	Maj Gen Heather Pringle, AFRL CC
8:15	Director’s Remarks/Intro of Dr. Naik	Dr. Shery Welsh, SES AFOSR Director
8:25	Introduction of SME Panelist	Dr. Rajesh Naik,SME Panel Chair
8:30	Remarks	Dr. William (Pat) Roach, ST Chief Scientist
9:00	Remarks	Dr. Leslie Blaha, Deputy Chief Scientist
9:30	Data Analytics for Program Management and Global Tech Watch	Dr. Enrique (Riq) Parra, Internal AFOSR Initiative
10:00	BREAK	
10:18	2 min Contest Winner	Col Daniel Galton, RT Division Chief
10:50	RT Tech Advisor	Dr. Milton (Van) Blackwood, RT
11:10	RTA Overview	Lt Col Matt Krisak, RTA
11:30	RTB Overview	Dr. Jiwei Lu, RTB
11:50	RTC Overview	Mr. Neville Thompson, RTC
12:10	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
12:15	BREAK	
12:30	Special S&T Funding SME Panel Only—Closed Door Session	
12:30	AFOSR Leadership Session	
≈1:00	Day 1 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

**Agenda Day 2 | Tuesday, April 20, 2022**

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

Time	Topic	Speaker
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
8:05	Remarks	Dr. Rajesh Naik, SME Panel Chair
Program Coordinators		
8:10	3004G, SFFP, STEM 3004CC, FOE, 3004L	Dr. Kimberly Jacoby Morris, Program Coordinator
8:45	DURIP, MURI, DESI, GRD Bundle	Ms. Katie Wisecarver, Program Coordinator
9:20	BREAK	
9:35	PECASE, YIP, NDSEG, STFP	Ms. Ellen Robinson, Program Coordinator
10:10	HBCU/MSI, DEPSCoR	Mr. Edward Lee, Program Coordinator
10:45	Hypersonic Liaison (DARPA), SAF/AQR, Program Protection, SBIR, STTR	Dr. Ray Moszee, Program Coordinator
11:20	USAFA/AFIT Programs	Capt Andrew Cady, Program Coordinator
11:45	BREAK	
IO Organizational Leadership		
12:00	IO Division Chief Overview	Col Timothy Russell, IO
12:30	IO Tech Advisor	Dr. Barrett Flake, IOE
12:50	ION Overview	Dr. Tom Kim, ION
1:20	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
1:25	BREAK	
1:40	Tech SME Panel Only—Closed Door Session	
1:40	AFOSR Leadership Session	
≈2:10	Optional—Day 2 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

**Agenda Day 3 | Tuesday, April 21, 2022**

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)

Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
8:05	Introduction of SME Panelist	Dr. Rajesh Naik, SME Panel Chair
IO Organizational Leadership, Continued		
8:10	IOE Overview	Col (S) Melanie Presuto,IOE Int'l Program Officer
8:30	IOA/M Overview	Dr. Jermont Chen, IOA Int'l Program Officer
9:00	Diverse Set of IOA(M) Programs	Dr. Geoff Andersen, IOM Technical Director
9:30	BREAK	
9:45	IOS Overview & Portfolio	Lt Col Dan Montes- SOARD Lt Col Chris Carson - SOARD
10:20	IO Briefing	Ms. Katty Maldonado, SOARD
10:40	BREAK	
Dr. George F. Smoot Session		
10:55	Section Introduction	Dr. William (Pat) Roach, ST Chief Scientist
11:00	Space Science	Dr. Stacie Williams, Internal AFOSR Initiative
11:35	Space Science	Dr. Julie Moses, RTB Program Officer
12:10	BREAK	
12:25	Physics of Sensing	Dr. Michael Yakes, RTB Program Officer
1:00	Space Domain Awareness and Space Weather	Dr. Bradford Barrett, Int'l Program Officer
1:35	Space Science	Maj. Grant Thomas, Int'l Program Officer
2:00	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
2:05	BREAK	
2:20	Tech SME Panel Only-- Closed Door Session	
2:20	AFOSR Leadership Session	
≈2:50	Optional--Day 3 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

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

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

Time	Topic	Speaker
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
8:05	Introduction of SME Panel	Dr. Rajesh Naik, SME Panel Chair
Dr. Sheldon Glashow, Dr. Steven Weinberg, and Dr. Abdus Salam Session		
8:10	Atomic & Molecular Physics	Dr. Boyan Tabakov, RTB Program Officer
8:45	Plasma, Electro-energetic Physics	Dr. John Luginsland, RT Program Officer
9:20	BREAK	
9:35	Directed Energy	Dr. Nate Lockwood, Int'l Program Officer
10:10	Electromagnetics	Dr. Arje Nachman, RTB Program Officer
10:45	IOA Quantum Portfolio	Lt Col Michael Richards, Int'l Program Officer
11:10	BREAK	
11:25	Condensed Matter Physics	Dr. Jiwei Lu, RTB Program Officer
12:00	Aerospace Materials for Extreme Environments	Dr. Ali Sayir, RTB Program Officer
12:35	BREAK	
12:50	Quantum Information Sciences	Dr. Grace Metcalfe, RTB Program Officer
1:25	Physics and Space Weather	Dr. Scott Dudley Int'l Program Officer
2:00	SHORT BREAK	
2:10	Ultra short Pulse Laser-Matter Interactions	Dr. Andrew Stickrath, RTB Program Officer
2:45	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
2:50	BREAK	
3:05	Tech SME Panel Only-- Closed Door Session	
3:05	AFOSR Leadership Session	
≈3:35	Optional--Day 4 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

**Agenda Day 5 | Tuesday, April 25, 2022**

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)

Attendees: Business Casual (Civilian); Uniform of the Day (Military)

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>7:30</b>	<b>In-person Registration/Logon</b>	
<b>8:00</b>	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
<b>8:05</b>	Introduction of SME Panel	Dr. Rajesh Naik, SME Panel Chair
<b>Dr. Jack Kilby Session</b>		
<b>8:10</b>	GHz-THz Electronics	Dr. Ken Goretta, RTA Program Officer
<b>8:45</b>	Optoelectronics & Photonics	Dr. Gernot Pomrenke, RTB Program Officer
<b>9:20</b>	<b>BREAK</b>	
<b>9:35</b>	Agile Science for Test and Evaluation	Dr. Brett Pokines, RTA Program Officer
<b>10:10</b>	Sensors and Microelectronics	Dr. Attila Szep, Int'l Program Officer
<b>10:45</b>	<b>BREAK</b>	
<b>11:00</b>	Sensors, E&M, and Device Physics	Dr. Tony Kim, Int'l Program Officer
<b>11:35</b>	Dynamic Data & Information Processing	Dr. Erik Blasch, RTA Program Officer
<b>12:10</b>	<b>BREAK</b>	
<b>12:25</b>	Cognitive and Computational Neuroscience	Dr. Hal Greenwald, RTA Program Officer
<b>1:00</b>	Information Science	Dr. Akira Namatame, Int'l Program Officer
<b>1:25</b>	Science of Information, Computation, Learning & Fusion	Dr. Richard (Doug) Riecken, RTA Program Officer
<b>2:00</b>	<b>BREAK</b>	
<b>2:15</b>	Trust and Influence	Dr. Laura Steckman, RTA Program Officer
<b>2:50</b>	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
<b>2:55</b>	<b>BREAK</b>	
<b>3:10</b>	Tech SME Panel Only-- Closed Door Session	
<b>3:10</b>	AFOSR Leadership Session	
<b>≈3:40</b>	Optional--Day 5 Hot Wash	
	<b>REVIEW ADJOURN 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
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
8:05	Introduction of SME Panel	Dr. Rajesh Naik, SME Panel Chair
Dr. Yoichiro Nambu Session		
8:10	Dynamical Systems and Control Theory	Dr. Fred Leve, RTA Program Officer
8:45	Computational Mathematics	Dr. Fariba Fahroo, RTA Program Officer
9:20	Information Assurance & Cyber Security	Dr. Tristan Nguyen, RTA Program Officer
9:55	BREAK	
10:10	Mathematical Optimization	Dr. Warren Adams, RTA Program Officer
10:45	Complex Networks	Dr. Don Wagner, RTA Program Officer
11:20	Operations Research and Applied Mathematics	Lt Col Mark Friend, Int'l Program Officer
11:55	BREAK	
Dr. Ragnar Granit Session		
12:10	Human Performance and Biosystems	Dr. Patrick Bradshaw, RTB Program Officer
12:45	Life Sciences (Contest Winner)	Dr. Nandini Iyer, Int'l Program Officer
1:22	BREAK	
1:40	Biophysics	Dr. Sofi Bin-Salamon, RTB Program Officer
2:15	Biophysics, Behavioral Science, Mathematics	Lt Col Kris Ahlers, Int'l Program Officer
2:50	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
2:55	BREAK	
3:10	Tech SME Panel Only-- Closed Door Session	
3:10	AFOSR Leadership Session	
≈3:40	Optional--Day 6 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

**Agenda Day 7 | Tuesday, April 27, 2022**

Dress Policy: Presenters: Business (Civilian); Service Dress (Military)

Attendees: Business Casual (Civilian); Uniform of the Day (Military)

Time	Topic	Speaker
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, SES AFOSR Director
8:05	Introduction of SME Panel	Dr. Rajesh Naik, SME Panel Chair
Dr. Paul Flory Session		
8:10	Organic Materials Chemistry	Dr. Kenneth Caster, RTB2 Program Officer
8:45	Chemistry, Materials and Biological Sciences	Dr. Stacy Manni, IOS
9:20	Molecular Dynamics & Theoretical Chemistry	Dr. Michael Berman, RTB, Program Officer
9:55	BREAK	
Dr. Ilya Prigogine Session		
10:10	Energy, Combustion & Non-Equilibrium Thermodynamics	Dr. Chiping Li, RTA Program Officer
10:45	Aeronautical Sciences	Dr. Douglas Smith, Int'l Program Officer
11:20	Hypersonic Modeling for Guidance, Navigation and Control	Dr. Garrison Lindholm, Int'l Program Officer
11:45	BREAK	
12:00	High-Speed Aerodynamics	Dr. Sarah Popkin, RTA Program Officer
12:35	Unsteady Aerodynamics & Turbulent Flows	Dr. Gregg Abate, RTA Program Officer
1:10	BREAK	
1:25	Propulsion and Power	Dr. Mitat Birkan, RTA Program Officer
2:00	Aerospace Sciences	Lt. Col. Ryan Carr, Int'l Program Officer
2:35	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
2:40	BREAK	
2:55	Tech SME Panel Only-- Closed Door Session	
2:55	AFOSR Leadership Session	
≈3:25	Optional--Day 7 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

Agenda Day 8   Tuesday, April 28, 2022		
Dress Policy: Presenters: Business (Civilian); Service Dress (Military) Attendees: Business Casual (Civilian); Uniform of the Day (Military)		
Time	Topic	Speaker
7:30	In-person Registration/Logon	
8:00	Daily Comments	Dr. Shery Welsh, AFOSR Director
8:05	Introduction of SME Panel	Dr. Rajesh Naik, SME Panel Chair
Dr. Nicolaas Bloembergen, Dr. Arthur Schawlow, and Dr. Kai Siegbahn Session		
8:10	Aerospace Composite Materials	Dr. Ming-Jen Pan, RTA Program Officer
8:45	Mechanics of Multifunctional Materials and Microsystem	Dr. Byung-Lip (Les) Lee, RTB Program Officer
9:20	BREAK	
9:35	Materials Discovery and Manufacturing Science	Dr. Jeremy Knopp, Int'l Program Officer
10:10	Materials, Chemistry and Nanoscience	Dr. Todd Rushing, Int'l Program Officer
10:45	Digital Strategies for Aircraft Structures and Robotics	Dr. Fumio Kojima, Int'l Program Officer
11:10	Closing Remarks	Dr. Shery Welsh, SES AFOSR Director
11:15	BREAK	
11:30	Tech SME Panel Only-- Closed Door Session	
11:30	AFOSR Leadership Session	
≈12:00	Optional--Day 8 Hot Wash	
	REVIEW ADJOURN FOR THE DAY	

Agenda Day 9   Tuesday, April 29, 2022		
Dress Policy: Presenters: Business (Civilian); Service Dress (Military) Attendees: Business Casual (Civilian); Uniform of the Day (Military)		
Time	Topic	Speaker
8:30	Tech SME Panel Only-- Closed Door Session	
12:00	SME Panel Out Brief	
	REVIEW ADJOURN	