

**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)

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

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

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

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

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

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

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

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

| 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 |
| 0800 | In-person Registration and ZOOM Government Login | |
| 0830 | Tech SME Panel Only-- Closed Door Session | |
| 1200 | SME Panel Out Brief | |
| REVIEW ADJOURNS | | |

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 |