2024 Future Leaders in Aerospace Symposium

Keeping the Momentum After a Breakthrough

Stanford University | Massachusetts Institute of Technology | University of Colorado, Boulder | Pennsylvania State University

Image from our 2018 symposium

The **2024 Future Leaders in Aerospace Symposium**, organized by Stanford University in conjunction with Massachusetts Institute of Technology (MIT), University of Colorado Boulder (CU Boulder), and Pennsylvania State University (Penn State) offers outstanding doctoral and postdoctoral researchers a unique opportunity to present their research, learn about careers in academia, discuss emerging trends in aerospace engineering, and build their network. The theme this year is "*Keeping the Momentum After a Breakthrough*."

Participants will:

- Exchange views on the future of aerospace engineering through research presentations, inspiring keynote presentations, and interactive panel discussions;
- Learn how to embark on the academic job search, win research grants, maintain career-life balance as a young faculty member, and design a sustainable research program;
- Engage with industry and government professionals to learn how to spark and maintain impactful academic-industry and academic-government research partnerships.

Participants (one to two years from, or up to two years following, receipt of their doctoral degree) will be selected through a competitive application process. Applicants should show a strong

research background, contributions to the aerospace community, and an interest in pursuing a career in research.

AGENDA	
Day 1: Wednesday, May 15 **Location: Durand Building (1st Floor Patio), 496 Lomita Mall, Stanford, CA 94305**	
5:00 pm - 6:30 pm	**Welcome Reception** *Host: Women in Aero/Astro (WIAA)*
Day 2: Thursday, May 16 **Location: Mackenzie Room (Huang-300), 475 Via Ortega, Stanford, CA 94305**	
8:30 am - 09:15 am	**Breakfast, Coffee, & Tea**
9:15 am - 09:30 am	**Welcome** *Introduction*, **Prof. Debbie Senesky (Stanford University)**
9:30 am - 10:30 am	**TECHNICAL SESSION #1** **Elena-Sorina Lupu,** California Institute of Technology **Desirae Major,** Penn State University **Victor Qin**, University of Michigan **Somrita Banerjee**, Stanford University **Ana Cristine Meinicke**, University of Michigan **Xinyi Huang**, California Institute of Technology *Moderator: Lauren Simitz* *More Information*

10:30 am - 11:00 am	**Break**
11:00 am - 12:00 pm	**PANEL #1** **Putting Your Best Foot Forward: Winning the Faculty Position** *Moderator*: **Prof. Julie Shah (MIT)** *Panelist*: **Prof. Maria Sakovsky (Stanford University)** *Panelist*: **Prof. Adrian Lozano-Duran (MIT)** *Panelist*: **Prof. Manan Arya (Stanford University)** *Panelist*: **Adyasha Mohanty (Stanford University)**
12:00 pm - 1:30 pm	**Lunch w/ Faculty**
1:30 pm - 2:30 pm	**TECHNICAL SESSION #2** **Natalia Nigay,** Penn State University **Marisa Petrusky,** University of Colorado, Boulder **Andres Garcia Jimenez,** Massachusetts Institute of Technology **Hannah Tomio,** Massachusetts Institute of Technology **Mira Partha,** Stanford University **Divya Sanghi,** University of Michigan *Moderator: Lauren Simitz* *More Information*
2:30 pm - 3:00 pm	**Break**
3:00 pm - 4:00 pm	**FIRESIDE CHAT** **Building a Thriving Career in Aerospace** **Dr. Todd Citron (The Boeing Company, CTO)** **Dr. Hannah Alpert (NASA Ames)**
4:00 pm - 4:30 pm	**Group Photo**

4:30 pm - 5:30 pm	**Break & Transit to Dinkelspiel Auditorium**
5:30 pm - 6:30 pm	**Keynote (Dinkelspiel Auditorium)** *Fusion Breakthrough Presentation: Design of first ever fusion experiment to produce more energy than what went in, and what's next?* **Dr. Andrea "Annie" Kritcher (Lawrence Livermore National Laboratory)** *More Information* *Note: This is a public lecture that is co-organized with Aero/Astro, nano@stanford, SLAC, & Plasma Seminar*
7:00 pm - 8:30 pm	**Reception (Faculty Club)**
Day 3: Friday, May 17 **Location: Durand Building (450 Durand), 496 Lomita Mall, Stanford, CA 94305**	
8:30 am - 9:00 am	**Breakfast, Coffee, & Tea**
9:00 am - 9:10 am	**Welcome** *Introduction*, **Prof. Manan Arya (Stanford University)** *Introduction*, **Dean Jennifer Widom (Stanford University)**
9:10 am - 10:10 am	**TECHNICAL SESSION #3** **Zixi Liu,** Stanford University **Rashmi Ravishankar,** Massachusetts Institute of Technology **Chelsea Sidrane,** KTH Royal Institute of Technology **Brenna Royersmith,** University of Colorado, Boulder **Hyeyeon (Ann) Chang,** University of Colorado, Boulder **Surabhi Bhadauria,** Purdue University *Moderator: Asta Wu* *More Information*

10:10 am - 10:50 am	**PANEL #2** **Standing on the Shoulders of Giants: Mentoring, Promotion & Tenure** • *Moderator*: **Prof. Hamsa Balakrishnan (MIT)** • *Panelist*: **Prof. Amy Pritchett (Penn State)** • *Panelist*: **Prof. Torin Clark (CU Boulder)**
10:50 am - 11:00 am	**Break**
11:00 am - 12:15 pm	**Keynote Presentation** *Breakthroughs and momentum of electric aviation* **Kristina Menton (Pivotal)** *Introduction*, **Prof. Manan Arya (Stanford University)** *Note: Co-organized with the Aero/Astro Department & WIAA*
12:15 pm - 1:00 pm	**Lunch & Round Table Discussion** **Walking a Tightrope: Time Management, Career & Family** • *Panelist*: **Prof. Debbie Senesky (Stanford University)** • *Panelist*: **Prof. Hamsa Balakrishnan (MIT)** *Panelist*: **Mykel Kochenderfer (Stanford University)**
1:00 pm - 2:00 pm	**TECHNICAL SESSION #4** **Golda Nguyen,** Massachusetts Institute of Technology **Madeline Evans,** University of Colorado, Boulder **Krzysztof Stopka,** Purdue University **Felicia Fashanu,** University of California at Davis **Marlini Simoes,** University of Cambridge **Juan C. Osorio,** Purdue University *Moderator: Asta Wu* *More Information*

2:00 pm - 2:30 pm	**Break**
2:30 pm - 3:30 pm	**The Stanford Dish Hike (Optional)** *Lead: Lauren Simitz*