

# Elevating Ideas Since 1944

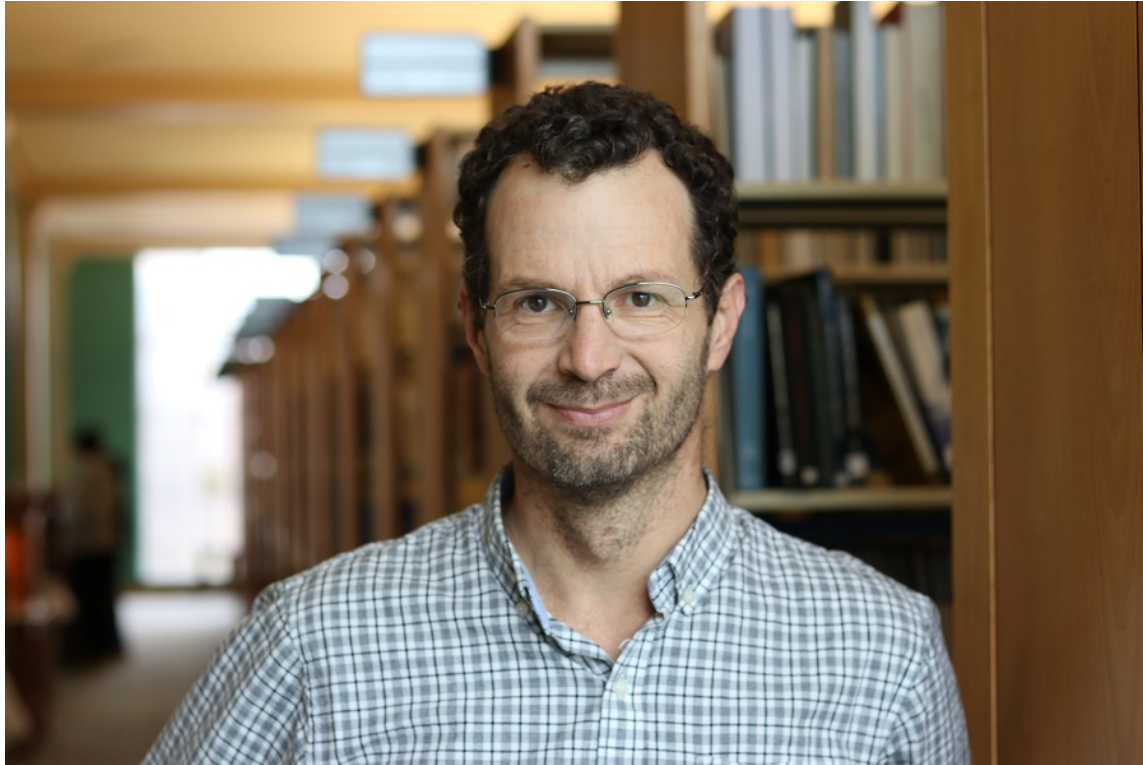
**August 2020  
New Graduate Student Welcome**



**Grainger College  
of Engineering**

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

**Aerospace Engineering**



**Jonathan B. Freund** (he/...)  
**10<sup>th</sup> AE Department Head**  
Donald Biggar Willett Professor

BS, MS, PhD from Stanford University  
3 years at University of California, Los Angeles  
2001 Assistant Professor  
2004 Associate Professor  
2006 Joined AE 33 percent  
2010 Professor  
2020 Department Head



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## FACULTY

23 faculty members (+1 August/+3 January)  
12 affiliate faculty members  
11 adjunct faculty  
6 active emeritus faculty  
50+ current research grants

## GRADUATES

\$70,000 starting salary with a BS  
4,694 alumni worldwide

## STUDENTS

32 average ACT score of incoming freshmen  
518 undergraduate students  
167 graduate students  
9 registered student organizations

## FUNDING AND FACILITIES

\$8.9 million research expenditures  
25+ laboratories and research centers  
10 interdisciplinary research centers  
3,800 sq. ft. new educational labs (coming 2020)

## RANKINGS

9<sup>th</sup> ranked undergraduate program in the nation  
7<sup>th</sup> ranked graduate program in the nation

8.50 x 11.00 in



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**It's all about the people. Reach out to us.**



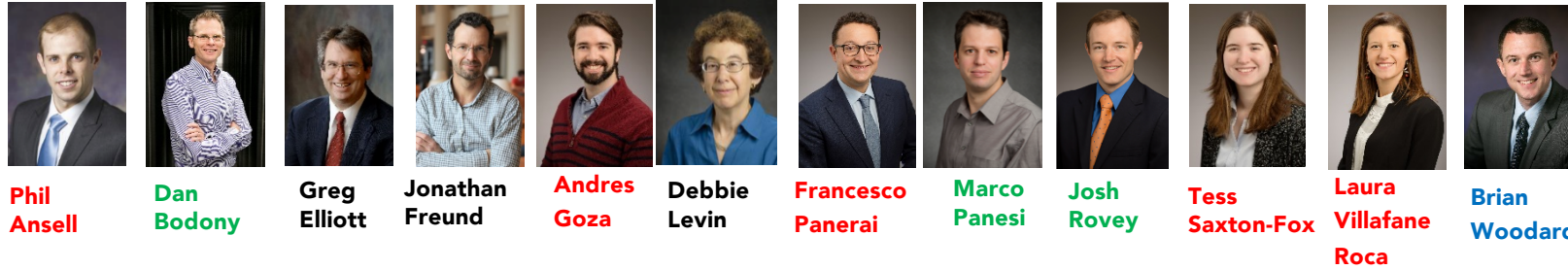
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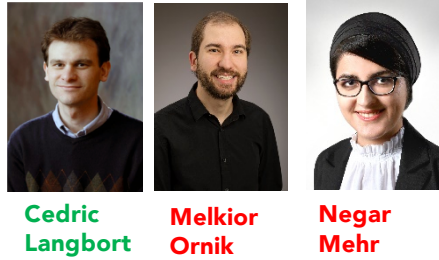
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# AE Faculty

## Aerodynamics, fluid mechanics, combustion, and propulsion



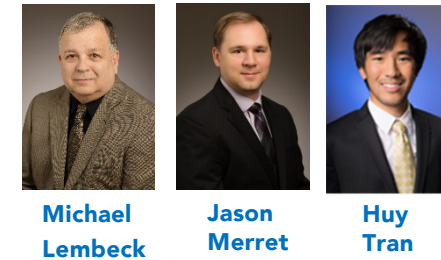
## Controls and dynamical systems



## Space systems



## Aerospace systems engineering



## Aerospace structures and materials



## Active Emeriti



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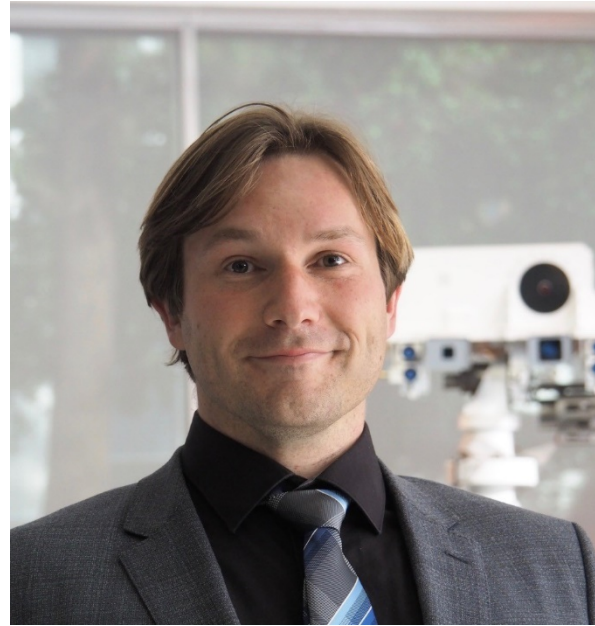
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# New Faculty Hires



**Negar Mehr**

Ph.D. 2020 from UC Berkeley  
Autonomous Vehicles  
Mixed-traffic networks



**Siegfried Eggl**

Ph.D. 2013 from University of Vienna  
Start January 2021  
Astrodynamics  
Planetary defense

Plus: 2 more confirmed appointments:

1. Additive manufacturing & materials
2. Space systems & orbital mechanics

joining January 2021



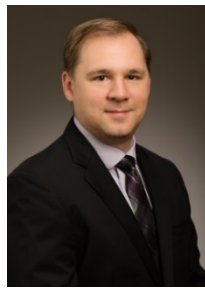
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# AE Staff



**Jason Merret**  
Coordinator of Aerospace  
Systems Engineering Program



**Michael Lembeck**  
Dir. of the Laboratory for  
Advanced Space Systems at Illinois



**Brian Woodard**  
Instructional Lab Manager  
Director of UG Program



**Daniel Bodony**  
Director of Grad Program

## Administrative Staff



**Tim Cochrane**  
Advancement



**Laura Gerhold**  
Chief UG Adviser



**Diane Jeffers**  
Outreach &  
Space Grant



**Debra Larson**  
Communications  
& Alumni Relations



**Courtney McLearin**  
Special Events



**Staci McDannel**  
Grad Prog.



**Kristen Reifsteck**  
Administrative Aide



**Heidi Bjerke**  
ISGC-STEM  
Coordinator

## Machine Shop



**Lee Booher**



**Stephen Mathine**

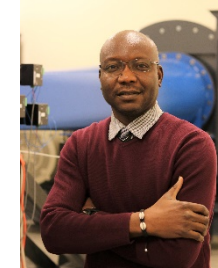


**Greg Milner**

## Technical Staff



**Murphy Stratton**  
CubeSat Lab Manager



**Dassou Nagassou**  
Lab Operations Manager



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## Facility improvements

- \$75M Campus Instructional Facility.
- \$41M Lu Mechanical Engineering Building.
- \$33.5M CEE modernization effort.
- \$2.5M Transportation Building improvements (more possible through state's deferred-maintenance funding).
- \$8.6M Talbot Lab expansion



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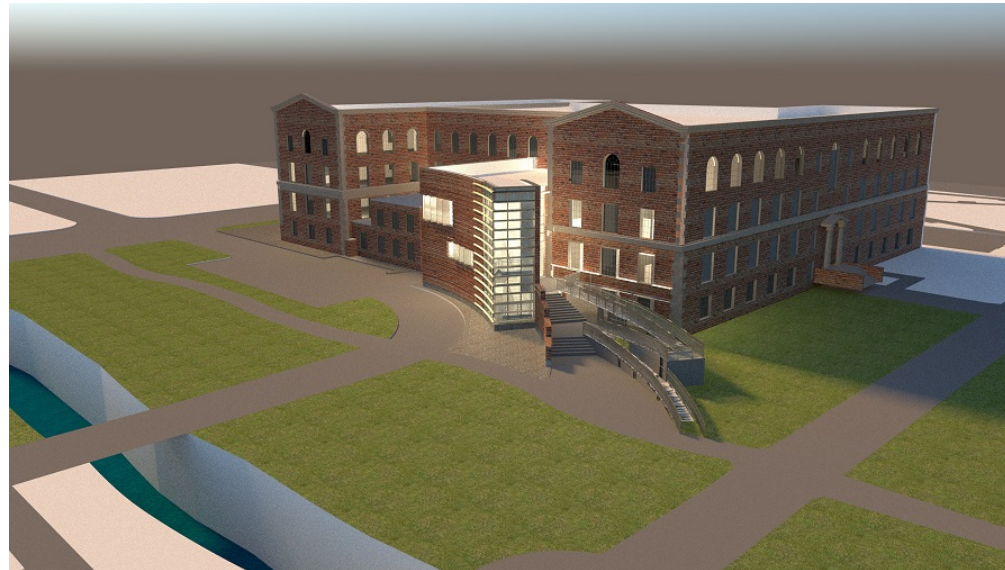
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**Talbot Expansion** – shared with NPRE  
Construction began March 2019  
\$8.66 million  
Composite manufacturing lab  
Nanosatellite facility will enhance  
CubeSat program



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# Diversity Fosters Excellence

- You belong.
- They belong.
- Everyone serious about learning and advancing Aerospace Engineering belongs and can contribute.

Aerospace Graduate Student Advisory Committee: <https://gsac.ae.illinois.edu>

Office for Access & Equity: <https://oae.illinois.edu>

Grainger College of Engineering Institute for Inclusion, Diversity, Equity, and Access (IDEA): <https://idea.illinois.edu>

Vice Chancellor for Diversity, Equity & Inclusion: <https://diversity.illinois.edu>

AE Head Q&A: <http://www.ae.illinois.edu/news/q-diversity>



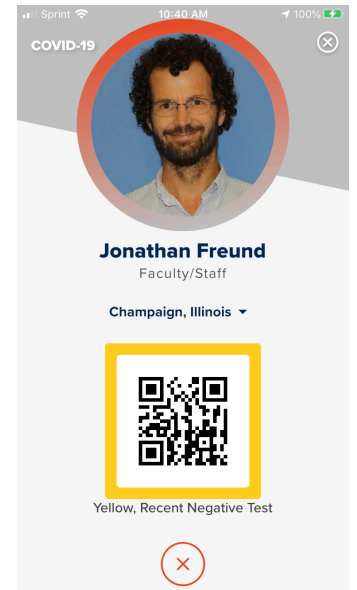
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## In Closing...

- Congratulations and welcome
- Make the most of your graduate studies at Illinois.  
These will be challenging, but exciting years for you.
- Work hard but also grow: take advantage of all the university and C-U community offers.
- Get involved in the Aerospace Graduate Student Advisory Committee (GSAC).
- Wear a mask. Socially distance. Get tested regularly. Use the ***Safer Illinois*** App. Be safe.



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