

40th ASME/AIAA Online Regional Symposium Schedule

9:00am

Welcome
Dr. Daniel E. Fisher

9:05am

Introduction of Keynote Speaker
Dr. Kursat Kara

9:05am – 9:50am

Symposium Speaker
Dr. John Herrington
Commander, USN (Ret.) and NASA Astronaut

9:50am – 10:00am

Break

10:00am – 11:30am

1-Minute Slide Presentations

11:30am – 11:35am

Break

11:35am – 11:50am

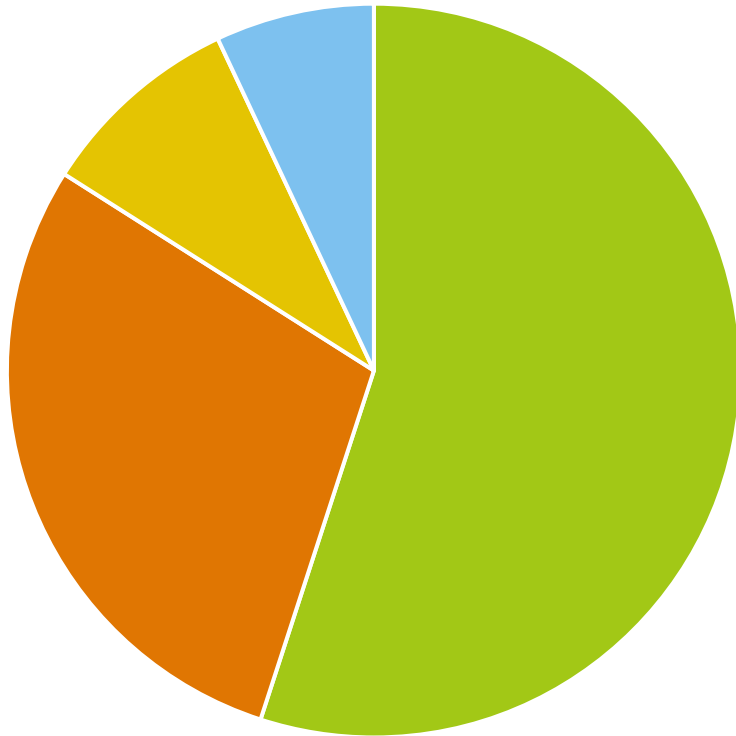
Awards & Closing Remarks

40th ASME/AIAA Online Regional Symposium Awards



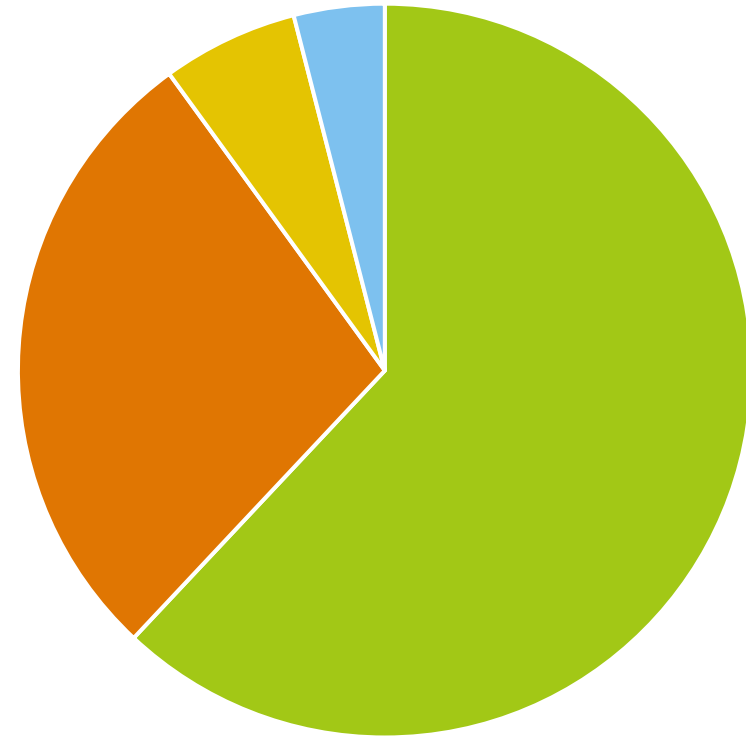
40th ASME/AIAA Online Regional Symposium Participation Statistics

88 Abstracts



■ OSU (55%) ■ OU (29%) ■ ORU (9%) ■ TU (7%)

69 Presentations



■ OSU (62%) ■ OU (28%) ■ ORU (6%) ■ TU (4%)



40th ASME/AIAA Online Regional Symposium
People Choice's Award



40th ASME/AIAA Online Regional Symposium
People's Choice Award >> **Ahmed Nadeem, The University of Tulsa**

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Acoustic Sand Monitors

Ahmed Nadeem & Asad Nadeem
Graduate Student Mechanical Engineering, R.A

Tulsa University Sand Management Projects (TUSMP)
Mechanical Engineering Department
The University of Tulsa

Mar 23, 2021

0:03 / 9:56

Asad Nadeem-University of Tulsa "Acoustic Sand Monitors for TSR"

3,730 views • Mar 25, 2021

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40th ASME/AIAA Online Regional Symposium
Best Paper Awards



40th ASME/AIAA Online Regional Symposium

Faculty Judge Panel



He Bai
Assistant Professor
OSU



Nicoletta Fala
Assistant Professor
OSU



Omer San
Assistant Professor
OSU



Rushikesh Kamalapurkar
Assistant Professor
OSU



Kursat Kara
Assistant Professor
OSU



Kaan Kalkan
Associate Professor
OSU



James Manimala
Associate Professor
OSU

40th ASME/AIAA Online Regional Symposium
Honorable Short Listed Presenters

Jacob Starks
OU

Devin Laurence
OU

Colton Ross
OU

Yilin Jiang
OU

Geoffrey Willis
ORU

John Bradshaw
OU

Thomas Hays
OU

Matthew Llano
OU

Andrew Williamson
OSU

Scott Weekley
OSU

Shady Ahmed
OSU

Kyle Hickman
OSU

Asma Tabassum
OSU

40th ASME/AIAA Online Regional Symposium

Best Paper Award — 3rd Place >> Colton Ross, The University of Oklahoma

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Evaluation of the Tricuspid Valve Annulus Mechanics in Newborns with Hypoplastic Left Heart Syndrome Using 4D Echocardiograms

Colton Ross¹, Arshid Mir², Harold Burkhart³, and Chung-Hao Lee^{1,4}

¹Biomechanics & Biomaterials Design Laboratory (BBDL),
University of Oklahoma

²Department of Pediatrics, ³Department of Surgery, University of
Oklahoma Health Sciences Center

⁴Institute for Biomedical Engineering, Science and Technology,
University of Oklahoma



College of Engineering
School of Aerospace and
Mechanical Engineering

46:08 AIAA/ASME Regional Symposium – Oklahoma State University – April 3, 2021

Colton Ross-OU-Evaluation of the Tricuspid Valve Annulus Mechanics in Newborns with Hypoplastic

Unlisted

45 views · Mar 22, 2021

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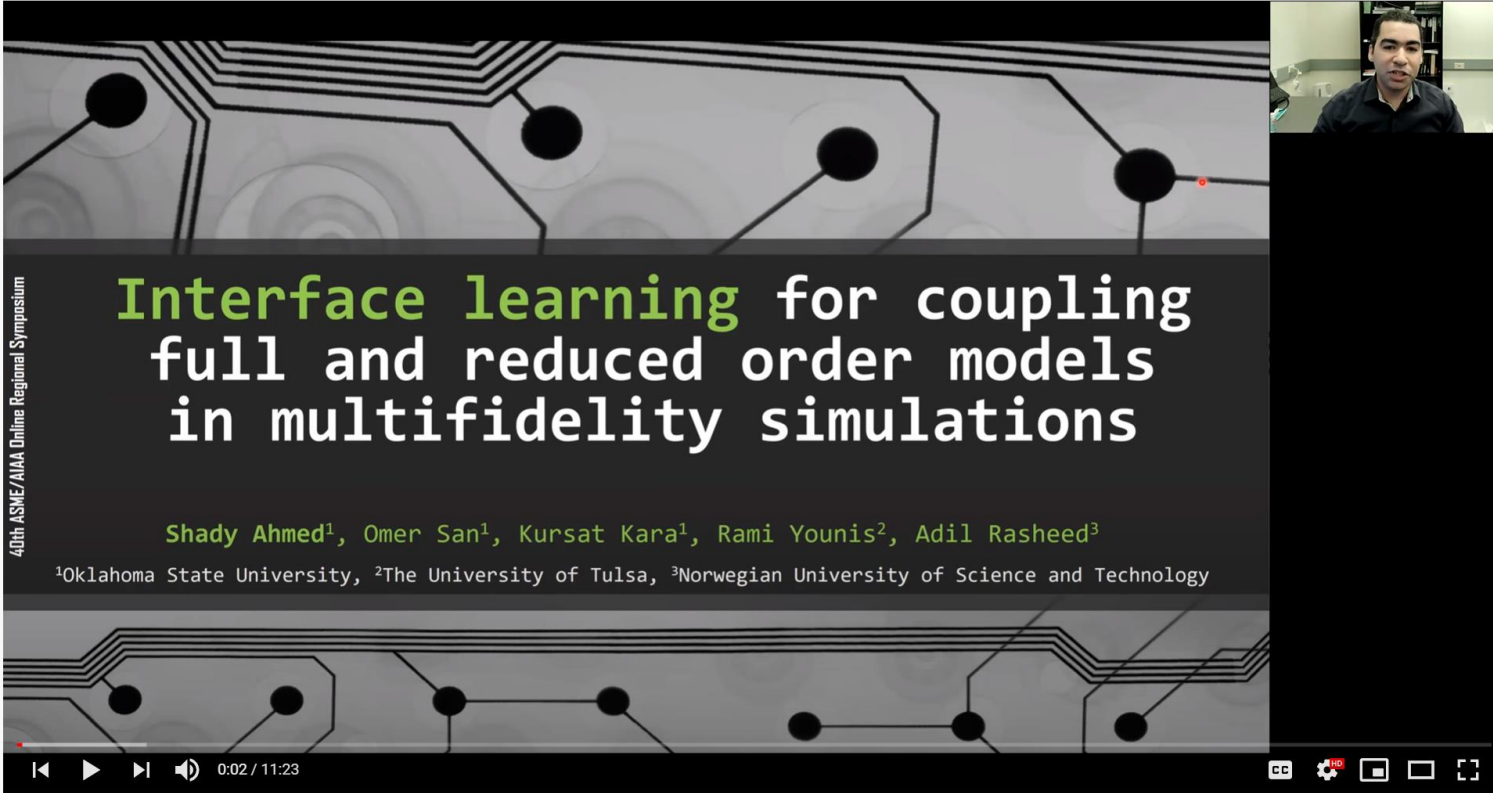
40th ASME/AIAA Online Regional Symposium Best Paper Award — 2nd Place >> **Scott Weekley, Oklahoma State University**

The image shows a YouTube video player interface. At the top left is the YouTube logo. A search bar is located at the top center. The main video area displays a presentation slide with the following text: "A BELLWETHER OF AIRCRAFT DESIGN", "SCOTT WEEKLEY", "SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING", "OKLAHOMA STATE UNIVERSITY", "SCOTT.WEEKLEY@OKSTATE.EDU.", "AIAA / ASME Symposium 2021", and the Oklahoma State University logo. A small video inset in the top right corner shows a man speaking, with "RESEARCH INSTITUTE" written below it. The video player controls at the bottom show a progress bar at 0:06 / 7:46, a volume icon, and a play button. Below the video player, the title "Scott Weekley OSU A Bellwether of Aircraft Design" is displayed, along with "Unlisted", "42 views · Mar 22, 2021", and interaction icons for likes (2), comments (0), share, save, and a menu icon.

40th ASME/AIAA Online Regional Symposium Best Paper Award — 1st Place >> **Shady Ahmed, Oklahoma State University**

YouTube

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Interface learning for coupling full and reduced order models in multifidelity simulations

Shady Ahmed¹, Omer San¹, Kursat Kara¹, Rami Younis², Adil Rasheed³

¹Oklahoma State University, ²The University of Tulsa, ³Norwegian University of Science and Technology

40th ASME/AIAA Online Regional Symposium

STILLWATER
Shady Ahmed-OSU-Interface learning for coupling full and reduced order models in multifidelity sim.

1,344 views · Mar 22, 2021

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