

2021

11th IEEE Integrated STEM Education Conference

Virtual Conference



**11th IEEE Integrated
STEM
Education Conference**
Saturday, March 13, 2021
Virtual Event



2011

11 Years of
IEEE ISEC

2021

IEEE ISEC 2020

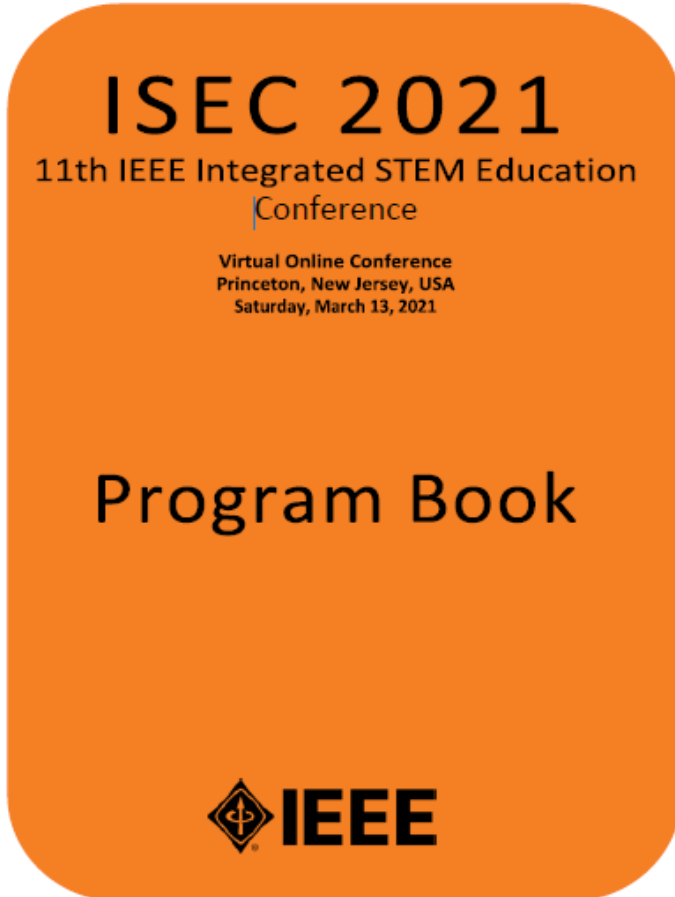
A Zoom meeting interface for IEEE ISEC 2020. The meeting title "IEEE ISEC 2020" is displayed at the top in yellow. The interface shows a 3x3 grid of video thumbnails. The top row contains three participants: Ashutosh... (Host), naveen verma, and Dave Touretzly. The middle row contains a placeholder for Stephen Esker with the text "SE" in a circle, Burt Dicht (with an IEEE logo on his shirt), and Jay Roy. The bottom row contains Matthew Morrison, Nagi Naganathan, and Roger Ding. The bottom-right cell contains a smaller video thumbnail of a participant. At the bottom, there is a toolbar with icons for mute, video, screen share, gallery view, chat, and close. The background of the meeting is dark.

Ashutosh... (Host)	naveen verma	Dave Touretzly
Stephen Esker	Burt Dicht	Jay Roy
Matthew Morrison	Nagi Naganathan	Roger Ding

RT

Meeting Controls: Mute, Video, Screen Share, Gallery View, Chat, Close

Relevant Links and Information



Program Book for 2021 IEEE ISEC – Available Online

- <https://assets.ieee-isec.info/isec21/isec21-program-book.pdf>

IEEE Integrated STEM Education Conference Page

- <https://ewh.ieee.org/conf/stem/>
 - Check this page for updated information about the conference next week, including the announcement of the Best Paper and Best Poster Awards

IEEE Integrated STEM Education Virtual Conference

- <https://IEEE-ISEC.INFO>
- https://ieeetv.ieee.org/live_event/IEEE_ISEC

Program for 2020 IEEE ISEC – Still Available Online

- <https://ieee-isec20.info>

2021 IEEE ISEC

(Current Year TPC Slide Program Book)

2021 Conference Statistics

- 3 - Key Note Speakers
- 32 - Full Papers
- 16 – Works-in-Progress Papers
- 65 – K-12 Poster Presentations
- 7 – Workshops

Record Attendees: ~1,000

> Still available to view until Sept 14, 2021

Authors by Country (Home Institution)

- 79 – United States of America
- 10 – People Republic of China
- 2 – Canada
- 1 - Taiwan
- 1 – Singapore
- 1 – Russian Federation
- 1 - Morocco
- 1 – Indonesia
- 1 – India
- 1 – Greece
- 1 – Denmark
- 1 – Bahrain
- 1 – Brazil

KEYNOTE SPEAKER INTRODUCTION

KEYNOTE SPEAKER – DR. JAYSHREE SETH

KEYNOTE SPEAKER – PROF. DEAN ASLAM

KEYNOTE SPEAKER – DR. ALLISON FRAZIER JACKSON



KEYNOTE SPEAKER – Dr. Jayshree Seth



Dr. Jayshree Seth, Corporate Scientist, 3M. She leads applied technology development projects for 3M’s Industrial Adhesives and Tapes Division. She was appointed 3M’s first ever Chief Science Advocate in 2018 and is using her scientific knowledge, technical expertise and professional experience to advocate for science. She has a PhD in Chemical Engineering from Clarkson University, NY and was recently awarded Society of Women Engineers (SWE) highest Achievement Award.

She is also the author of *“The Heart of Science – Engineering Footprints, Fingerprints, & Imprints”*, the proceeds of which go to a SWE Scholarship for Underrepresented Minority Women in STEM.

The keynote presentation is titled, **“The state of science: On the global perception of science and the need for STEM advocacy”**.

KEYNOTE SPEAKER – Prof. Dean Aslam



Prof. Dean Aslam, Director of BIOMEMS and Mind Laboratory, Michigan State University. Dr. Aslam was awarded 10 patents and approx. \$5 million research funding in the past 20 years. His current research focusses on (a) self-study of neural problems using mind-controlled LEGO robots, (b) empathy-controlled robot to study narcissism, sociopathy and psychopathy, (c) cancer-avoiding herbal diet, and (d) personality prediction using EEG and facial data.

His keynote presentation is titled, **“Creative Functionalized Bricks with Embedded Intelligence (FBEI) For Research-Oriented Provocative STEM and Workforce”**.

KEYNOTE SPEAKER – Dr. Allison Frazier Jackson



Dr. Allison Frazier Jackson operates a private consulting firm, Allison Jackson Associates (AJA), which she founded in 1982. Allison serves as both Managing Director and Member of the Board. She has worked with more than 23 CEOs of Fortune 500 companies, offering workforce development and change management across manufacturing, consumer electronics, IT services, network television, bio-pharmaceutical, telecom, environmental, primary care, and professional services. She was the first woman and African American assistant dean at Princeton University School of Engineering and Applied Science. She founded the National Engineers Week event program at Princeton, grew the E-Quad Newsletter from 1200 circulation to 30,000 in 1.5 years and served as liaison to 13 industry panels and 6 student societies in engineering and materials science. Over the past 15 years she has established herself as a thought leader in STEAM programs for kindergarten to graduate school programs. She was the author the Hearts, Hands and Minds Framework, winner of STEM Ecosystem grant bringing services across 8 counties in South Jersey. Founder of the Million Women Mentors, NJ Chapter, and winner of the national prize for its program development; and currently a State Judge engaged in STEAM TANK competitions for K-12 students moving STEAM projects to entrepreneurial pursuits that fund youth businesses or patent products. Her current work includes attracting homeless youth and their families to STEM programs. Allison holds five degrees: B.A., New Jersey City University, M. ED, M.C.R.P., Rutgers University and M.S. Project Management, Stevens Institute of Technology, and ED. D, and has completed all courses for PhD in Urban Planning from Rutgers University.

Her keynote presentation is titled, **“Future Work: EE STEM / CTE Resources”**.

SAVE THE DATE!

12TH IEEE INTEGRATED STEM

EDUCATION CONFERENCE



PRINCETON UNIVERSITY

SATURDAY, MARCH 19, 2022

VIRTUAL CONFERENCE INSTRUCTIONS

<https://IEEE-ISEC.INFO>

Register Free to View the Talks and Presentations

1. Go to IEEE ISEC Conference – <https://IEEE-ISEC.INFO>
2. If you have not sign up before, Select “Free Signup”
 - a. Enter Your Name and Email Address Information
 - b. Choice a Password – At Least 8 Characters, With A Mix Of Upper And Lower Case Characters And Digits
 - c. Select or Click “Sign up” Box On The Bottom
3. Log-in at “Sign in” With Your Email And Establish Password
4. On demand Papers, workshop, Poster presentations 12 Noon – (available for 6 months)
5. Keynotes will be available at IEEE TV site and virtual conference site
6. Leave questions for the authors within a week
7. Best Papers and Best posters will be announced within a week