



IEEE

Buenaventura Section

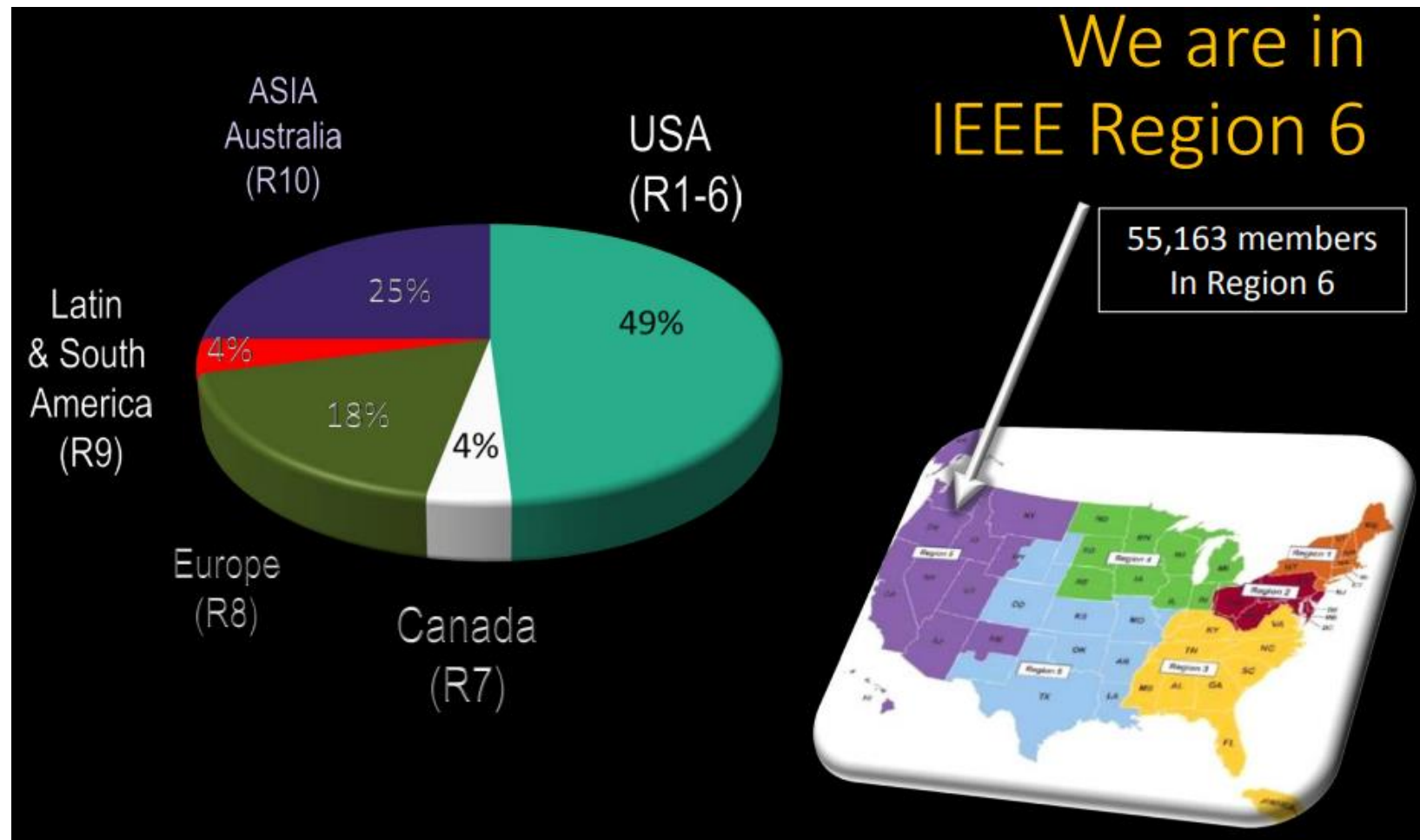
Volunteer Appreciation Banquet 2022

Momin Quddus, Chair

March 30, 2022



IEEE is one of the largest Professional Organizations in the World



IEEE BV
Section
Geographic
region



Buenaventura Section represents 10 societies and 1 Affinity Group

IEEE Societies

- Aerospace & Electronic Systems
- Antennas & Propagation
- Broadcast Technology
- Circuits & Systems
- Communications
- Components, Packaging, & Manufacturing Technology
- Computer
- Computational Intelligence
- Consumer Electronics
- Control Systems
- Dielectrics & Electrical Insulation
- Education
- Electromagnetic Compatibility
- Electron Devices
- Engineering in Medicine & Biology
- Geoscience & Remote Sensing
- Industrial Electronics
- Industry Applications Information
- Theory Instrumentation & Measurement
- Intelligent Transportation Systems
- Lasers & Electro-Optics Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Power Electronics
- Power Engineering
- Product Safety Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Society on Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology
- Photonics Society



Affinity Groups

- Consultants Network
- Life Members
- Women in Engineering
- Young Professionals
- coming up: Entrepreneurs Network

IEEE- BV Section Mission

- **Mission-Enhance the careers and enrich the lives of our members**
- Improving our members knowledge in technologies thru Technical talks
- Mixers for networking
[Home - IEEE Buenaventura Section \(www.ieee-bv.org\)](http://www.ieee-bv.org)
- Helping our members find employment opportunities
[Jobs - IEEE Buenaventura Section \(www.ieee-bv.org\)](http://www.ieee-bv.org)
- Provide a platform to contribute to our community.

Chapter Meetings and Technical Talks

In 2020

BV Chapters organized 15 technical talks, 8 of which were in-person and 7 were virtual due to the pandemic

In 2021

BV Chapters organized 40 virtual lectures.

Some of these lecture were organized local speakers.

Others were co hosted with organization such, as Keck Institute of Science, Caltech Program Office, SETI, Planetary Society of OC and MTTs.


Mixers for Networking

In 2020


BV Section organized 2 in-person mixer events prior to the pandemic

Happy to say we are BACK!!!

Provide a platform to contribute to our community.



**HOW
TO THINK
LIKE
A
SUSTAINABILITY
ENGINEER**

**GIRLS
MAKE
TECH
With**


This program is made possible by the support from the IEEE Foundation.

Girls Make STEM with Heart

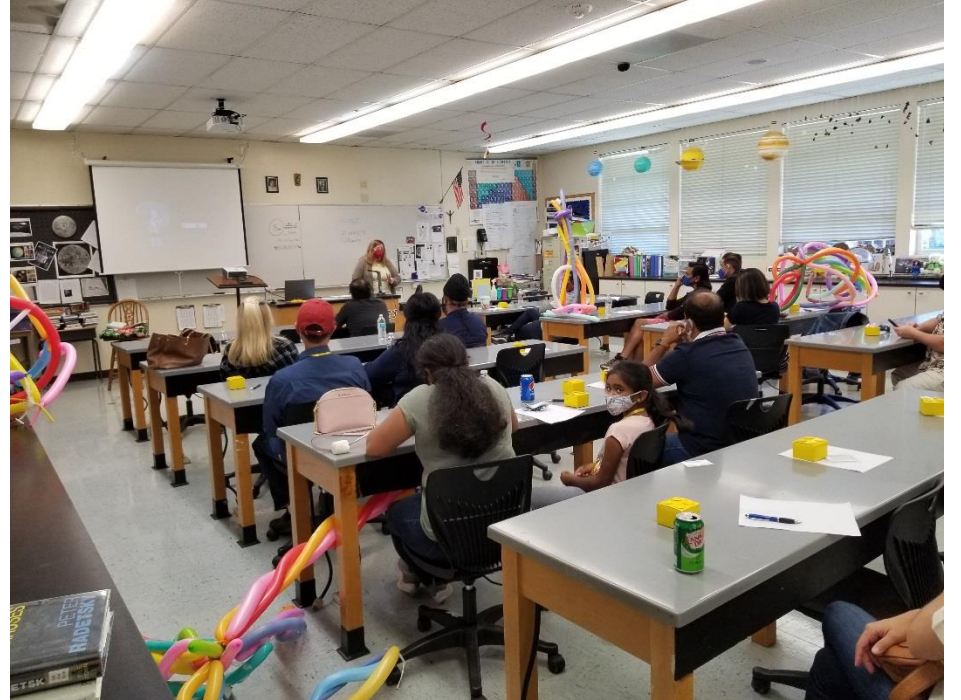
IEEE Buena Ventura Section

Deron Johnson



Girls Make STEM – Thousand Oaks

- October 2021
- This was our 6th year, introducing middle-school girls different facets of STEM.
- Students chose from workshops on chemistry, circuits, ham radio, light, robotics, solar energy, or math and numbers.
- Parents could attend a program with a mix of hands on experiences, and discover the future that awaits their daughters in STEM.
- Volunteers were a mix of IEEE members and people from other professions.
- 114 students, 50 parents, 30 volunteers



Girls Make STEM – Santa Paula

- Last Saturday!
- This was our 7th year, and first time in Santa Paula, at Isbell Middle School.
- Students chose from workshops on chemistry, circuits, or gravity and magnetism.
- 62 students, 18 volunteers.
- Outstanding support from the school for the first time at their location.







Thank you

Amelia Aboujawdah
Audrey Askegard
Doug Askegard
Pia Atal
Kirstie Bellman
Noreen Camacho
Susan Camarena
Meta Davidson
Dan Demaggio
Narda Fargotstein
Paul Fargotstein
Suzanne Fisher
Nathalie Gosset

Bonnie Hames
Ken Hesson
Stacy Hunter
Deron Johnson
Emily Johnston
Tom Johnston
Branka Jokanovic
Ashley Kuhnley
Chris Landauer
Victor Lin
Cindy Martin
Pat McCombs

Momin Quddus
S K Ramesh
Laphatrada Richards
Bob Rumer
Sana Sarfraz
Chuck Seabury
Sri Priya Sundararajan
Mohammad Tehrani
Shahin Soltanieh Tehrani
Howard Turner
Lily Weaver
Victor Zeng

Buenaventura Section Sponsored First Lego League Robotics

-Lead by
Bob Rumer



The IEEE Foundation

-Nathalie Gosset

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OUR VISION

The IEEE Foundation is a leader in transforming lives through the power of technology and education.

OUR MISSION

The IEEE Foundation inspires an engaged community and leverages the generosity of donors to enable IEEE programs that enhance technology access, literacy, and education and supports the IEEE professional community.



Granted to the Buenaventura EMBS Chapter

2006
\$10,000

**CHOOSE TO BECOME
A BIOMEDICAL ENGINEER!**
Roadshow for 7th graders

IMPACT: 400 middle schools / 7,000 students
2007 EMBS Best Chapter of the Year

LEGACY: The Engineering in Medicine and Biology Society filmed a documentary about THE Buenaventura EMBS chapter initiative.

EMBS roadshow



- Cal Lutheran University Students
 - Joshua Lee *
 - Thomas Estus *
 - Gregory Johnson *
 - Stephen Roberts *
 - Corey Russo *
 - Abigail Corrin



2006

**BEST CHAPTER
ENGINEERING IN MEDICINE &
BIOLOGY SOCIETY**

2016
\$13,000

Grant to the Buenaventura Section



PLAYERS OF THE LIGHT

STEM event for 100 girls
from 6th to 8th grades
+
Conference for 50
parents



GREEN PEPPER

Precision agriculture
drone flyover
The science of agriculture
Field Trip

STEM event for 56 children
from 6th to 8th grades



**2016 IEEE REGION 6
OUTSTANDING SECTION
OF THE YEAR**

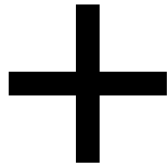
2018
\$16,000

2019
\$16,000

Grants to the Buenaventura Section



**GIRLS MAKE STEM
WITH ❤️**
STEM event for 120 girls
and 60 parents



ENTREPRENEURSHIP
Stimulating
innovation



**SPEAKERS
AWARENESS
PROGRAM**
2018: Aging gracious with Tech
2019: Cybersecurity



FIRST LEGO LEAGUE





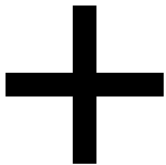
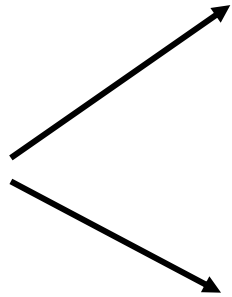
**2019 SECTION PROFESSIONAL
DEVELOPMENT AWARD
FROM THE IEEE EDUCATIONAL BOARD**

2021 and 2022
\$17,000

Grant to the Buenaventura Section



**GIRLS MAKE STEM
WITH ❤️**
STEM event for 180
girls and 60 parents



ENTREPRENEURSHIP
Stimulating
innovation

**SPEAKERS
AWARENESS
PROGRAM**
2020-2021: Engineering
Resilience with Wildfires and
Drought

ROBOTICS LEAGUE

IEEE Foundation Grant

Buenaventura Section was awarded IEEE Foundation grant to raise awareness of 'Sustainability Engineering' in the community.

20 outreach events were held to promote sustainability engineering.

Foundation Grant Events



Extreme Drought
Modeling the Risks of Climate Variability
Speaker: Samantha Stevenson, Ph.D.

Date and Time: Friday September 10, 2021, 7 PM
Pre-registration required at www.ieee.org/events/2021-09-drought

Extreme Weather: Drought
Modeling the Risks of Climate Variability

Dr. Samantha Stevenson's research goals relate to understanding how large-scale climate variability responds to changes in climate. You can use machine learning to forecast drought using paleoclimatic evidence, and use that information to improve the representation of climate variability in climate models. In this talk, Dr. Stevenson will share what extreme weather means about drought's events.

Speaker: Samantha Stevenson, Ph.D.
Dr. Samantha Stevenson is an assistant professor in the Earth School of Environmental Science & Management at the University of Colorado Boulder. She is a climate modeler who studies the impact of drought in the context of using a combination of ocean and climate models, field observations, and satellite remote sensing. She has published on the interannual climate variability in the Tropics and subtropical climate over the US Southwest. Her research area is the role of a proxy variable at the National Oceanic and Atmospheric Administration and was an NSF Earth System Researcher. She is also an assistant professor at the University of Colorado Boulder, working with the Boulder team.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.



Disentangling What Changes Our Forests
Speaker: John Dudney


Date and Time: Wed Aug 25, 2021, 7 PM
Register Here

Disentangling What Changes Our Forests
Natural science to assess risk to us

Dr. John Dudney studies important questions: what impacts do human systems (cities and forests) have on forests? How are humans impacting the disturbance experience in our forests? How do climate change impacts affect ecosystems, from forest cover to wildfire? How do forest health indicators (like tree-ring analysis) relate to climate variability? How do forest health indicators (like tree-ring analysis) relate to climate variability? How do forest health indicators (like tree-ring analysis) relate to climate variability?

Speaker: John Dudney
John Dudney, Ph.D., is an Assistant Professor at the University of Colorado Boulder. He received a Ph.D. in Environmental Science, Policy and Management from the University of Colorado Boulder. He is currently an Assistant Professor at the University of Colorado Boulder. He is currently an Assistant Professor at the University of Colorado Boulder. He is currently an Assistant Professor at the University of Colorado Boulder.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.



RainCube: First Spaceborne Radar in a CubeSat
Speaker: John R. Mount

Date and Time: Wednesday, October 13, 2021 at 6 PM (Online)
Register at www.ieee.org/events/2021-10-raincube

Re-engineering Resilience to Wildfires
Speaker: John R. Mount

RainCube is a technology demonstration mission to enable Ka-Band precipitation radar technologies in a small, low-cost satellite. It is a CubeSat that will be launched in 2021. It is a CubeSat that will be launched in 2021. It is a CubeSat that will be launched in 2021.

Speaker: John R. Mount
John R. Mount is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.




Re-engineering Resilience to Wildfires
Speaker: John R. Mount

Date and Time: Thu May 27, 2021, 6 PM (Online)
Register at www.ieee.org/events/2021-05-wildfires

Re-engineering Resilience to Wildfires
Speaker: John R. Mount

John R. Mount is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.



Surviving Disasters
Being part of the solution not the problem
By Ross Kocin


Date and Time: Sun July 11, 2021, 7 PM
Pre-registration required at www.ieee.org/events/2021-07-surviving-disasters

Surviving Disasters
Being Part of the Solution, Not the Problem

Disasters are a reality for many communities. They are a reality for many communities. They are a reality for many communities. They are a reality for many communities.

Speaker: Ross Kocin
Ross Kocin is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.



Electrical Vehicles (EV) Technology and its Implications on Climate Change
Speaker: Momin Qudus


Wed July 21, 2021, 6 PM (Online)
Register at www.ieee.org/events/2021-07-ev-technology

Electrical Vehicles (EV) Technology and its Implications on Climate Change
Speaker: Momin Qudus

Electrical vehicles (EV) are a key technology for reducing greenhouse gas emissions. They are a key technology for reducing greenhouse gas emissions. They are a key technology for reducing greenhouse gas emissions.

Speaker: Momin Qudus
Momin Qudus is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

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MAFFS: The Modular Airborne Fire Fighting System
Speaker: Colonel Bryan K. Allen

Thu Aug 19, 6PM (Online)

MAFFS: The Modular Airborne Fire Fighting System
Speaker: Colonel Bryan K. Allen

The Modular Airborne Fire Fighting System (MAFFS) is a self-contained apparatus that can be deployed to any location. It is a self-contained apparatus that can be deployed to any location. It is a self-contained apparatus that can be deployed to any location.

Speaker: Colonel Bryan K. Allen
Colonel Bryan K. Allen is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

This program is made possible by the support from the IEEE Foundation, and the IEEE Boardman Section. Section appointments having been selected with the grant Engineering Resilience to Drought and Wildfires.



The FarmBot: An Open-Source Robotic Gardening Machine
Speaker: Alan Rodas

Jun 10, 2020 - 7PM (Online)

The FarmBot: An Open-Source Robotic Gardening Machine
Speaker: Alan Rodas

The FarmBot is an open-source robotic gardening machine. It is an open-source robotic gardening machine. It is an open-source robotic gardening machine.

Speaker: Alan Rodas
Alan Rodas is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder. He is a Professor and Director of the Center for Space Systems at the University of Colorado Boulder.

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Section Officers (2020/2021)

Function	Name
Section Chair	Momin Quddus
Section Vice Chair	Doug Askegard
Section Treasurer	Karl Geiger
Section Secretary	Deron Johnson
Awards	Doug Askegard
Entrepreneurship	Jerry Knotts – Mentor
Event Planning	Reza Faroozabadi
Historian	Doug Askegard
Membership Development	Reza Faroozabadi
	Nathalie Gosset
	S. K. Ramesh
Newsletter Editor	Deron Johnson
Professional (PACE)	Doug Askegard
Student Activities	Nathalie Gosset
	Bob Rumer

Chapter Officers (2020/2021)

Chapter	Officers
Aerospace	Mohammad Tehrani
	Victor Lin
	Doug Askegard
Communications Society (COMSOC)	Victor Lin
Computer	Deron Johnson
	Don Thomas
	Karl Geiger
Electromagnetic Compliance / Consumer Electronics	
Electron Devices / Circuits and Systems (EDCAS)	Cristian Cismaru
Engineering in Medicine and Biology (EMAG)	Bob Rumer
	Ryan Neimy
	Joel Harris
	Pat Jacobs
	Reza Faroozabadi
Life Member Affinity Group (LMAG)	Jerry Knotts
Microwave Theory & Techniques (MTT)	Momin Quddus
	Chuck Seabury
	Rick Poore
Photonics	R. Sudharsanan
Robotics and Automation / Industry Applications (RAIA)	
Entreprenuership	Stephanie Knotts
	Darrell Gooden



Volunteer with Us

Get involved within your Comfort zone

Work with your fellow engineers

Contribute to the community

Socialize with your peers





Thank you

Looking forward to working with
you in 2022!

Event Photographs



Event Photographs



Event Photographs



Event Photographs



Event Photographs

