

IEEE Berkshire Section Newsletter

Update: December 2020

STEM Research Challenge - 2021

Papers Due – March 8, 2021



HIGH SCHOOL

STEM Research Challenge - 2021

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AWARDS:

*Awards will be made in two divisions; grades 9–10, and grades 11–12.
Each division will be eligible for the following prizes:*

FIRST: \$800, SECOND: \$400, THIRD: \$200

Winning authors are invited with their parents and teacher to the
May 7th IEEE Annual Meeting to comment on their papers.

(Note: In 2020 we were unable to have the Annual Meeting due to the coronavirus pandemic.)

An *Honorable Mention* will be awarded to the student with the best qualifying paper in each participating school division with no prize awarded.

For additional information, see: <http://www.ewh.ieee.org/r1/berkshire/>

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2021 Berkshire Section Officers Nominations: October 2020



Berkshire Section
<http://www.ieee.org/berkshire>

22, October, 2020

Dear Member:

The nominating committee has proposed the following slate for the 2021 IEEE Berkshire Section Officers:

Section Chair	James McVeigh
Section Vice Chair	Rich Kolodziejczyk
Treasurer	Roger Manzolini
Secretary	Dave Rueger

Anyone wishing to submit a member for one of the offices should submit the name along with a letter indicating willingness to serve and endorsements of ten current members.
Send the nomination and endorsements no later than December 7, 2020 to the nominating committee at:

David Rueger, Secretary
IEEE BERKSHIRE SECTION
172 Orchard Road, Dalton, MA 01226.

NOMINATING COMMITTEE: GEORGE HAUS, BERT PRITCHARD, and GEORGE GELA.

David Rueger

Secretary
IEEE Berkshire Section

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2020 IEEE Berkshire Section STEM Research Challenge Winners

The following winners are students from the Berkshire County high schools' grades 9, 10, 11 and 12. Although, we could not have our annual dinner meeting this year due to the COVID-19, we recognized the winning papers with our usual awards to students for their topic research and interesting discoveries.

Grades 9/10 prizes: (1st - \$800, 2nd - \$400, 3rd - \$200)

1st – Nadia Makuc – Grade 10, Mt. Everett High School
“The Causes and Effects of the Disappearance of Ash Trees in North America”

2nd – Em Condron – Grade 10, Lee Middle and High School
“Bringing Surface to the Invasive Issue”

3rd – Mikel Nourse – Grade 10, Mount Everett
“Robots, a Human Equivalent”

Honorable Mention – Abigail Boyd, Grade 10, Monument Mountain Regional High School
“What is being done about the sixth leading cause of death: Alzheimer’s”

Grades 11/12 prizes: (1st - \$800, 2nd - \$400, 3rd - \$200)

1st – Annie Lombardi – Grade 12, Miss Hall’s School
“Charcot Marie Tooth Disease”

2nd – Daniel Snow – Grade 11, Lee Middle and High School
“The Next Step In Exoplanet Astronomy”

3rd – Evelyn Stewert – Grade 12, Miss Hall’s School
“Poliomyelitis”

Honorable Mention – Alec Bachman, Grade 11, Monument Mountain Regional High School
“Dark Waters: Polychlorinated Biphenyls in the Housatonic River”

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From Award Chairman:

Our Chairman announced that there were no applications this year for the 2020 Member Child Awards (these awards are picked during our annual dinner meeting which was canceled due to the COVID-19): **No applicants this year, no winners.**

Berkshire Consultants Network Presented National Engineers Week Dinner Meeting: February 20

Experiencing Hubble – The Greatest Images of the Universe

By
David M. Meyer, Ph.D.

(VIDEO)

The 2020 Engineers Week Theme was “**Engineers: Pioneers of Progress.**” **Engineers** – like all pioneers – use their knowledge, creativity, and sense of adventure to cross frontiers. Engineers have led us into space and deep below the ocean's surface. They have connected millions of people through advances in communications and transportation.

The National Engineers Week (EWeek) was founded by the National Society of Professional Engineers in 1951. The EWeek (February 16–22) was dedicated to ensuring a diverse and well-educated future engineering workforce by increasing the understanding of and interest in engineering and technology careers. During EWeek we celebrated engineers and how they improve our lives. The need for the next generation of practical inventors and innovators continues. Who will step up?

So what can be more fitting than the study of the Hubble Space Telescope (HST) which revolutionized our understanding of the universe both near and far. Its stunning images of stars, nebulae and galaxies have captivated our attention and inspired students of all ages. In this introductory video we will view the scientific stories behind 10 of HST's most spectacular images. These images were chosen on the basis of their visual beauty and scientific impact. Out of these ten images, due to time constraints, we can only view two lectures tonight: The Rationale for a Space Telescope and Comet Shoemaker-Levy 9 and Jupiter. First, the video presented the key advantages of the space telescope over a ground based observatory in imaging the cosmos. Then the video showed the solar system event of the century: the 1994 images of fragments of Comet Shoemaker-Levy 9 slamming into the planet Jupiter.

Meeting contacts: Rich Kolodziejczyk, P.E.

Guest Attendance: 12

IEEE Member Attendance: 14

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Rich Kolodziejczyk, Section Vice-Chair, opens the meeting with the topic introduction