

Albuquerque Section IEEE

Officers:

- Chair – Jason Neely
- Vice Chair – Ray Byrne
- Treasurer – Gilberto Zamora
- Secretary – Lee Rashkin
- Educational Outreach – Hy Tran

Student Chairs:

- UNM Co-Chairs – Rebecca Kreitinger, Francisco Viramontes
- NMT Chair – Alejandra Mayorga del Valle

Section Report



- Status
 - Higher Grade Members: from 1,008 (2017) to 981 (2018), -2.7%
 - Student Members: from 120 (2017) to 131 (2018), +9.2%
 - Total Members: from 1,128 (2017) to 1,112 (2018), -1.4%
- Successes
 - Student branches engaged and active
 - Active collaborations with other organizations
 - Continued activities: public talks and awards
 - New: YPAG, SPS
- Obstacles
 - Recruitment and retention
 - Membership at-large engagement
 - WIE lacks continuity



Student Branches are Active



- NMT student branch
 - hosted a through-hole and surface-mount soldering workshop last week, many enjoyed that and we will have one again soon
 - supervised two events at the Science Olympiad State Competition held at NMT
 - attended 2018 Rising Stars conference
- UNM student branch
 - Participated at IEEEExtreme programming competition
 - Holds periodic meeting to help and recruit students
 - Holds tutorials on EE basic skills
- Working on setting up other student branches
 - CNM
 - Navajo Technical Institute



2018 Rising Stars Conference



January, 2018

- NMT and UNM took the podium at IEEE Rising Stars 2018! We received awards for first, second, and third place in their Cyber Security Capture-the-Flag competition.



Section Awards Banquet Ceremony

May 26th, 2018

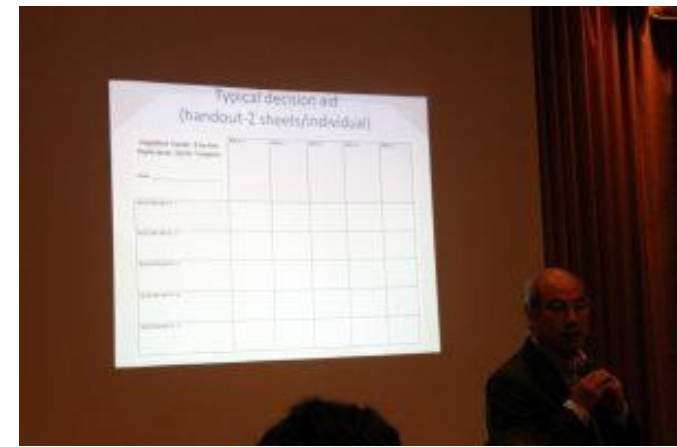
- Each year the IEEE Albuquerque Section, in collaboration with the UNM Sigma Xi Chapter, recognizes the efforts of its membership to improve the organization and bring merit to our profession.
- Astronaut Dr. Harrison H. Schmitt, presenting his talk “A Voyage to the Moon on Saturn’s Wings.”



STEM Symposium 2018

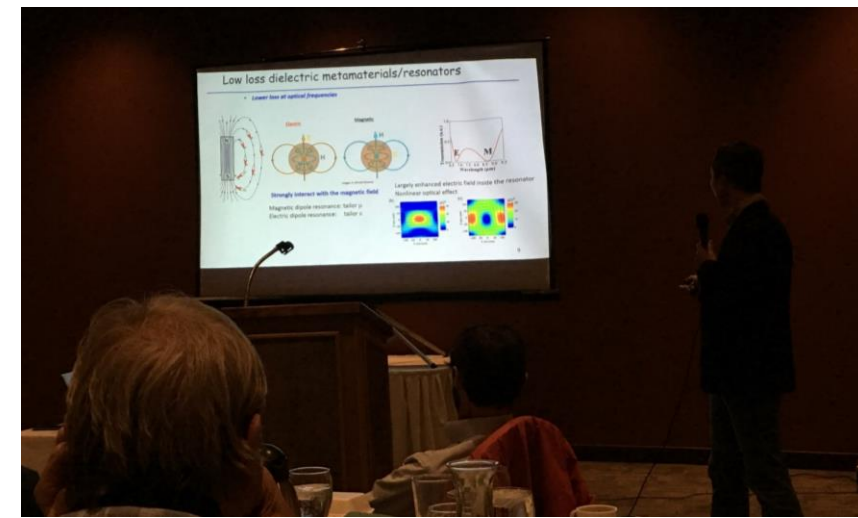
June 1st, 2018

- IEEE Albuquerque Section had another successful participation at the 2018 New Mexico Public Education Department's STEM Symposium
- The workshop, titled "Breaking Chocolate" was presented by:
 - Turtle Haste, NBCT, MSED
 - Rebecca Kreitinger, Student Member IEEE
 - Zane Kominek, Student Member IEEE
 - Hy Tran, Senior Member, IEEE.
- 50 teachers participated in the session (this was the room limit); and teachers participated in discovering the importance of standards in measurements



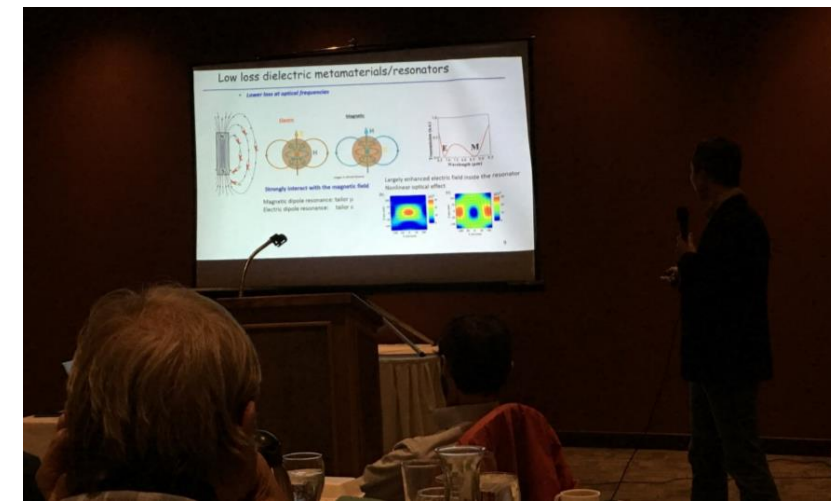
Technical Talks

- The Albuquerque Section IEEE Joint Chapter hosts several technical talks each year
- Recent talks include:
 - Nov 14, 2018 - “Therapeutic and Diagnostic Uses of Electromagnetic Energy in Emerging Medical Technologies” by Dr. David Giri, ECE, UNM
 - Sept 19, 2018 – “Overview of Wideband Antenna Concepts, Applications to CWI and Pulse Testing” by Bill Prather, USAF Research Lab, Directed Energy Directorate
 - Oct 5, 2017 – “Novel functional photonic devices enabled by nano-structures” by Dr. Sheng Liu, Sandia Labs



Technical Talks

- The Albuquerque Section co-sponsors a prolific distinguished public talks series with the UNM chapter of Sigma-Xi
- Recent talks include:
 - Nov 14, 2018 - “Therapeutic and Diagnostic Uses of Electromagnetic Energy in Emerging Medical Technologies” by Dr. David Giri, ECE, UNM
 - Oct 17, 2018 – “Energy Storage and Modernization of the Electric Grid” by Dr. Babu Chalamala, Sandia National Laboratories, Albuquerque, NM
 - Sept 19, 2018 – “Overview of Wideband Antenna Concepts, Applications to CWI and Pulse Testing” by Bill Prather, USAF Research Lab, Directed Energy Directorate
 - May 2, 2018 – “Statistical Topological Approach using Wave-chaos for Electromagnetic Effects (STUWEE)” by Ghadeh M. Hadi, Ph.D., Verus Research, Albuquerque, NM
 - April 4, 2018 – “Switches for Emerging Applications in High Power Electromagnetics” by Dr. Jane Lehr, Electrical & Computer Engineering Dept, University of New Mexico
 - March 7, 2018 – “Double-Pulse Technique for Defending from Hostile Systems” by Dr. Dave Giri, President, Pro-Tech, Brooklyn, NY, and Adjunct Professor, EECE, University of New Mexico
 - Feb 7, 2018 – “Shiva Star: Pioneering Megagauss Science and Technology” by Dr. Matt Domonkos, Air Force Research Laboratory, Kirtland AFB, NM
 - Nov 16, 2017 – “Fundamental Antenna Terms that Do Not Appear in Any Textbook... Yet!” by Dr. Everett G. Farr, Farr Fields, LC, Albuquerque, NM



Collaborations

- The Albuquerque Section collaborates with local organizations
 - Sigma-Xi (UNM Chapter): Public Talks series co-sponsor
 - Materials-related Inter-Society (SAMPE, ASME, ASM, AWS, IEEE, Sigma Xi): Member
 - Solar Splash (national): Report judging, local team sponsor



Section Supports Local Conferences

Nov 12-16, 2018

- The Albuquerque Section IEEE is supporting the WEEF-GEDC 2018 Conference
 - World Engineering Education Forum (WEEF)
 - Global Engineering Deans Council (GEDC)

