



North Dakota Space Grant Annual Affiliates Meeting

April 7-8, 2017

National Energy Center of Excellence (NECE) - Room 431/433
1200 Schafer Street, Bismarck State College, Bismarck, ND 58501

Friday, April 7, 2017

- 1:00 pm Welcome! – **Larry Skogen, Bismarck State College**
1:05 pm Introductions – **Jim Casler**
1:15 pm [Highlights from the Past Year](#) - **Caitlin Nolby** and **Marissa Saad**

Presentations

- 1:30 pm [Sophie Orr, UND](#); Of Mice and Men: A Summer of Habitat Research
1:45 pm **Timothy See, UND**; Improving Model Accessibility for Undergraduate Students
2:00 pm **Jacob Huesman, NDSU**; NDSU Bison Robotics NASA Robotics Mining
Competition 2016
2:15 pm [Mary Pearson, NDSU](#); Radio Waves and DNA
2:30 pm *Break (15 mins)*
2:45 pm [Madison Olson, UND](#); Solidworks Modeling of Habitat Additions
3:00 pm [Lucky Nteke Mulenga, UND](#); Numerical Simulations of a Rotating Detonation
Engine
3:15 pm [Peter Henson, UND](#); Structural Health Monitoring of Air and Spacecraft after
Impact
3:30 pm *Break (15 mins)*
3:45 pm [Mitchell Champion, UND, online](#); Predicting West Nile Virus Occurrences in
North Dakota Using Data Mining Techniques
4:00 pm **Daniel Fife, UND**; Water Yield Characteristics of Tile Drained Fields in Eastern
ND: Use of Hydrologic Models Based on Field and Remote
Sensing Data
4:15 pm [Tony Musumba and Matt Kurtti, BSC](#); NASA Community College Aerospace
Scholars (NCAS)
4:30 pm *Adjourn!*
6:00 pm *No-Host Dinner – Johnny Carino's (1601 W. Century Avenue, Bismarck, ND)*



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Saturday, April 8, 2017

- 8:15 am *Light Snacks Provided*
- 8:30 am Summary of the Agenda and Other Updates
- 8:40 am [Apollo 13 Mission](#) – **Caitlin Nolby** and **Marissa Saad**

Presentations

- 9:10 am [Lindsay Anderson](#), **UND**; Testing Apollo Lunar Tool Modifications in a Regolith Bin
- 9:25 am [Eric Kramer](#), **UND**; Graphene for Use in Energy Storage Systems
- 9:40 am [John-Luke Singh and Lisa Meyer](#), **NDSU**; NASA Rover Challenge Team
- 9:55 am *Break (15 mins)*
- 10:10 am **Lisa Ramey and Students**: FIRST Robotics Competition Team 877 Climbs into Elimination Rounds!
- 10:25 am **Charles Schneider**, **UND**; **online** SmartSealz - Pilot Headset Augmentation with Navigation and Physiological Monitoring and Feedback
- 10:40 am **Tyler Lane**, **NDSU**, **online**; Energy Harvesting of Prosthetics
- 10:55 am [Kara Stone](#), **NDSU**, **online**; Application of Kinesio® tape trends toward facilitation of the paraspinal muscles: Implications for exercise countermeasures.
- 11:10 am [Sean McCloat](#), **UND**, **online**; Statistics and Observation of Exoplanets
- 11:25 am Group Picture
- 11:35 am Space Grant Business Meeting and Lunch
- 12:30 pm *Optional: Tour of BSC, including the National Energy Center of Excellence (NECE) and the Earth as Art Exhibit*