

# National Student Leadership Conference

## ENGINEERING

JULY 29 – AUGUST 6, 2018

### SUNDAY, JULY 29, 2018

10:00 AM – 4:00 PM	<b>Registration</b>
11:45 AM – 1:45 PM	<b>Welcome Lunch</b>
1:00 PM & 3:00 PM	<b>Campus Tours</b>
5:00 PM – 6:20 PM	Dinner
6:35 PM	<b>Meet in TA Groups</b> <i>Professional Attire</i>
7:00 PM – 8:15 PM	<b>Opening Ceremony</b>
8:30 PM – 9:45 PM	<b>TA Group Orientation</b> <i>TA Group Meeting Rooms (See Below)</i>
10:15 PM	<b>RA Meeting</b>
11:00 PM	RA Check-in

### MONDAY, JULY 30, 2018

7:15 AM – 8:05 AM	Breakfast
8:30 AM – 9:45 AM	<b>Leadership Series: Personality Matrix</b> Mr. Joel Hilchey <i>Casual Attire</i>
10:00 AM – 11:00 AM	<b>An Introduction to Engineering</b>
11:45 AM – 12:15 PM	Lunch
12:30 PM	Board Bus
1:00 PM – 4:15 PM	<b>Team Challenge Course</b> <i>Casual Attire, <u>must wear closed-toed shoes</u></i>
4:30 PM	Board Bus
5:00 PM – 6:30 PM	Dinner
6:45 PM – 7:15 PM	<b>An Introduction to the Engineering Simulations</b>
7:30 PM – 9:00 PM	<b>Project Development: Surf and Turf Design Phase</b> <i>TA Group Meeting Room (See Below)</i>
9:15 PM – 10:15 PM	<b>Birthday Ice Cream Social</b>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

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### TUESDAY, JULY 31, 2018

7:15 AM – 8:20 AM	Breakfast
8:45 AM – 10:00 AM	<b>Engineering Rotation #1</b> <i>See chart on right</i> <i>Neat Attire</i>
10:15 AM – 11:30 AM	<b>Engineering Rotation #2</b> <i>See chart on right</i>
11:45 AM – 12:40 PM	Lunch
1:00 PM – 2:15 PM	<b>Engineering Rotation #3</b> <i>See chart on right</i>
2:30 PM – 3:30 PM	<b>Lecture Series:</b> <b>Thriving in a College Engineering Program</b> Professor Roman Kuc
3:45 PM – 4:45 PM	<b>ENGN Trivia Mania</b>
5:00 PM – 6:00 PM	Dinner
6:15 PM – 7:30 PM	<b>Leadership Series:</b> <b>Conflict Resolution</b> Mr. Joel Hilchey  <i>Casual Attire</i>
7:45 PM – 9:00 PM	<b>Project Development:</b> <b>Product Pitch Topic Selection</b> <i>TA Group Meeting Room</i> <i>(See Below)</i>
9:15 PM – 10:15 PM	<b>Joint Social w/ ACTI</b>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

### WEDNESDAY, AUGUST 1, 2018

7:15 AM – 7:45 AM	Breakfast
8:00 AM	Board Bus <i>Casual Attire</i>
10:45 AM – 1:45 PM	<b>Boston:</b> <b>Museum of Science</b>
2:00 PM	Board Bus
2:30 PM – 5:30 PM	<b>Boston:</b> <b>Quincy Market &amp; Faneuil Hall</b> <b>Free Time</b> <i>*Dinner on Your Own</i>
5:45 PM	Board Bus
9:00 PM – 10:15 PM	<b>Dyadic Encounter</b>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

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### THURSDAY, AUGUST 2, 2018

7:15 AM – 8:15 AM	Breakfast
8:30 AM – 9:30 AM	<b>Lecture Series: Undergraduate Engineering Research Opportunities</b> Professor Roman Kuc  <i>Neat Attire</i>
9:45 AM – 11:30 AM	<b>Project Development</b> <i>TA Group Meeting Room (See Below)</i>
11:45 AM – 12:40 PM	Lunch
1:00 PM- 2:00 PM	<b>Lecture Series:</b> Professor Brian Scassellati
2:15 PM – 4:30 PM	<b>Project Development</b> <i>TA Group Meeting Room (See Below)</i>
5:00 PM – 5:55 PM	Dinner
6:15 PM – 7:30 PM	<b>Leadership Series: Intrapersonal Communication</b> Mr. Joel Hilchey  <i>Casual Attire</i>
7:45 PM – 9:00 PM	<b>Project Development</b> <i>TA Group Meeting Room (See Below)</i>
9:15 PM – 10:15 PM	<b>Mission Impossible</b>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

### FRIDAY, AUGUST 3, 2018

7:15 AM – 9:00 AM	Breakfast
9:15 AM – 11:15 AM	<b>Wind Turbines</b>  <i>Neat Attire</i>
11:45 AM – 12:40 PM	Lunch
1:00 PM – 2:00 PM	<b>Guest Speaker: Professor Brian Scassellati</b>
2:15 PM – 4:30 PM	<b>Peabody Museum</b>
5:00 PM – 6:30 PM	Dinner
6:45 PM – 9:00 PM	<b>Project Development</b> <i>TA Group Meeting Room (See Below) Casual Attire</i>
9:15 PM – 10:15 PM	<b>Friday Night Kickback!</b>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

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### SATURDAY, AUGUST 4, 2017

7:15 AM – 8:40 AM	Breakfast
9:00 AM – 11:00 AM	<b>Project Development</b> <i>TA Group Meeting Room (See Below) Casual Attire</i>
11:45 AM – 1:00 PM	Lunch
1:15 PM – 2:45 PM	<b>Leadership Series: Commitment in Action</b> Mr. Joel Hilchey
3:00 PM – 3:15 PM	<b>Introduction to Trebuchets</b>
3:30 PM – 6:30 PM	<b>Trebuchet Build</b> <i>TA Group Meeting Room (See Below) *Pizza Dinner</i>
6:30 PM – 7:15 PM	<b>Trebuchet Test, Debrief, and Clean-Up</b>
7:30 PM – 10:00 PM	<b>Project Development</b> <i>TA Group Meeting Room (See Below)</i>
10:30 PM	Entryway Check
11:00 PM	RA Check-in

### SUNDAY, AUGUST 5, 2018

7:15 AM – 8:25 AM	Breakfast
8:45 AM – 10:30 AM	<b>Surf and Turf Competition</b> <i>Casual Attire</i>
10:45 AM – 11:30 AM	<b>Project Development: Product Pitch Preparation</b> <i>TA Group Meeting Room (See Below)</i>
11:45 AM – 12:45 PM	Lunch
1:25 PM – 3:15 PM	<b>Project Development: Product Pitch Preparation</b> <i>TA Group Meeting Room (See Below) Professional Attire</i>
3:30 PM – 5:00 PM	<b>Product Pitch Presentations</b>
5:00 PM – 6:15 PM	Dinner
6:30 PM – 7:45 PM	<b>College Panel</b> <i>Casual Attire</i>
8:00 PM – 9:15 PM	<b>Leadership Series: What I've Discovered</b> Mr. Joel Hilchey
9:30 PM – 10:45 PM	<b>Light Up The City Social</b>
11:00 PM	Entryway Check
11:15 PM	RA Check-in

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### MONDAY, AUGUST 6, 2018

7:15 AM – 8:00 AM	Breakfast
8:15 AM – 9:00 AM	<b>Closing Ceremony</b>  <i>Casual Attire</i>
9:15 AM – 10:00 AM	<b>Final TA Meeting</b> <i>TA Group Meeting Room (See Below)</i>
10:30 AM – 2:00 PM	Check out <i>*You must be fully moved out of your room by 12:00 pm</i>
11:45 AM – 1:45 PM	Lunch

#### **To Check Out:**

- Collect your belongings
- Throw out your trash in basement
- Put all sheets and towels into your pillow case and place in provided bins in courtyard
- Leave pillow and blanket on your bed
- Move all furniture back
- Have a TA check off your room and sign your door tag
- Bring your signed door tag to check out downstairs in the courtyard
- Return keys, access cards, fans, and meal cards to the courtyard

**PLEASE BE IN THE COURTYARD 20  
MINUTES BEFORE YOUR SCHEDULED  
SHUTTLE.**



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### SPEAKER BIOS



#### **Professor Roman Kuc**

Professor of Electrical Engineering, Yale University

Roman Kuc is a Professor of Electrical Engineering in the Yale School of Engineering and Applied Sciences. Before coming to Yale, Kuc worked for Bell Laboratories and earned a PhD in Electrical Engineering from Columbia University. Professor Kuc is the head of the Intelligent Sensors Lab at Yale, which explores problems by starting with available sensing, applying physical principles to achieve perception, and approach autonomous task completion through cognition.

His main research focus is Brain-Based Devices. BBD's are sensor-processor-actuator systems that employ features that a biological brain uses to achieve robust performance in the presence of incomplete knowledge, errors and missing data. Optical and sonar sensors use biomimetic configurations and generate spike codes to enhance information content. Processing uses non-statistical principles that incorporate learning and improves model accuracy. Actuators close the loop by providing sensor information that disambiguates conflicts and form optimal trajectories.

Professor Kuc holds patents for "Biomedical Magnetism Imaging Apparatus and Method" and "Adaptive Acoustic Signal Sensing Device and Recognition System." Kuc has also won a multitude of awards in the fields of Engineering and Education, including the Sheffield Distinguished Teaching Award, Speech and Signal Processing Society Paper Award from IEEE Acoustics, and the Order of the Golden Bulldog Award. He was also elected to the Connecticut Academy of Science and Engineering in 2004. Kuc has had papers published in various scientific journals such as the Journal Acoustical Society of America and the IEEE Sensors Journal, and he received two PROSE 2009 Awards from the American Association of Publishers for his article on sonar sensing in the Springer Handbook of Robotics.



#### **Professor Brian Scassellati**

Professor of Computer Science & Mechanical Engineering, Yale University

Brian Scassellati is a Professor of Computer Science, Cognitive Science, and Mechanical Engineering at Yale University and Director of the NSF Expedition on Socially Assistive Robotics. His research focuses on building embodied computational models of human social behavior, especially the developmental progression of early social skills. Using computational modeling and socially interactive robots, his research evaluates models of how infants acquire social skills and assists in the diagnosis and quantification of disorders of social development (such as autism). His other interests include humanoid robots, human-robot interaction, artificial intelligence, machine perception, and social learning.

Dr. Scassellati received his Ph.D. in Computer Science from the Massachusetts Institute of Technology in 2001. His dissertation work (Foundations for a Theory of Mind for a Humanoid Robot) used models drawn from developmental psychology to build a primitive system for allowing robots to understand people. His work at MIT focused mainly on two well-known humanoid robots named Cog and Kismet. Dr. Scassellati has won numerous awards for his research in social robotics and assistive robotics.