

9:00am - 10:45am

<u>Session A1</u>	<u>Session A2</u>	<u>Session A3</u>	<u>Session A4</u>	<u>Session A5</u>	<u>Session A6</u>	<u>Session A7</u>	<u>Session A8</u>	<u>Session A9</u>	<u>Session A10</u>	<u>Session A11</u>	<u>Session A12</u>	<u>Session A13</u>
BIOE Topics	CEE Topics	CHE Topics	ECE Topics	Assorted Topics	MEMS Topics	BIOE Panel 1	CEE Panel 1	CHE Panel 1	ECE Panel 1	IE Panel 1	MEMS Panel1	Assorted Topics
Chair: Abbey Geary	Chair: Rie Huntington	Chair: Maya Jain	Chair: Noah Makowicz	Chair: Chris Moran	Chair: Morgan Powers	Chair: Maggie Walker	Chair: Will Blackledge	Chair: Gabby Brubach	Chair: Sophia Edwards	Chair: Emma Stein	Chair: Andrew Fox	Chair: Madelynn Bennett
Room: BEH G31	Room: BEH 320	Room: BEH 318	Room: BEH G30	Room: BEH G29	Room: BEH 226	Room: BEH 229	Room: BEH 102	Room: BEH 319	Room: BEH 309	Room: BEH 227	Room: BEH G27	Room: BEH G28
Correa, Huang, and Xu	Garud, Lorenzo, and Pak	Binkowski, Pervall, and Sun	Parekh, Portela Velez, and Quigley	Nguyen, Smith, and Suerdieck	Mohney, Sassaman, and Shah	Featured engineers: Michael Casey, Doug Nelson, Varshini Ramanathan	Featured engineers: Jason Esser, Taylor Shippling	Featured engineers: Robert Boback, Mark Jeffrey, Zack Ramsey	Featured engineers: Jake Braddock, Liam Salter, Spencer Sullivan, Gaoxiang Zhou	Featured engineers: Josh Ciampini, Kerry McCarthy	Featured engineers: Jared Andes, Nick Andes, Casey Cadman, Patrick Emmett	Muzzall, Pilgrim, and Samuel
Eriksson, Mills, and Stranick	Chan, Doll, and Harkare	Stoops, Xu, and Yoon	Algalay, Li, and Smith	Acharya, Odom, and Zhou	Kerouac, Loncki, and Very							McCalmont, Reeve, and Robinson
Shultz and Slaton	Dosu, Farrah, and Gopinathan	Ferraro, Fitzsimmons, and Macreery	Barsotti, Changco, and Hanlin	Brun, Dagen, and Siegel	Chadwell, Patel, and Yang							Frost, Kullmann, and Lomax
Fayocavitz, Heins, and Kramer	Honkus, Lai, and Salvo	Cheney, Miller, and Russo	Chess, McBrier, and Miller	Fatzinger, Lynch, and Malecki	Bomgardner, Cai, and Devlin							Irazoqui, Joseph, and Keen
Bramonth, Canavan, and Gaal	Bhimaraju, Bui, and Stevens	Chang, Conway, and Ropars	Humphries, Marques, and Strohecker	Kettleson-Belinikie, Kozar, and Lin	Chen, McCann, and Shoham							Emrick, Goya, and Kleinhenz
Gummadi, Sahu, and Tripodi	Dangeti, Reddy, and Roy	Bogush, Campos, and Fletcher	Esteban, Kang, and Vogel	Barrios, Morrison, and Zhang	Brandenburg, Dockstader, and Walls DeVallance, Kramer, and Wood							Boyle, Dudowski, and Glennon

10:45am - 11:00am

BREAK

**11:00am - 12:45pm**

<u>Session B1</u>	<u>Session B2</u>	<u>Session B3</u>	<u>Session B4</u>	<u>Session B5</u>	<u>Session B6</u>	<u>Session B7</u>	<u>Session B8</u>	<u>Session B9</u>	<u>Session B10</u>	<u>Session B11</u>	<u>Session B12</u>
BIOE Topics	CEE Topics	CHE Topics	ECE Topics	Assorted Topics	MEMS Topics	BIOE Panel 2	CEE Panel 2	CHE Panel 2	ECE Panel 2	IE Panel 2	MEMS Panel2
Chair: Madelynn Bennet	Chair: Will Blackledge	Chair: Gabby Brubach	Chair: Maggie Walker	Chair: Emma Stein	Chair: Andrew Fox	Chair: Abbey Geary	Chair: Chris Moran	Chair: Maya Jain	Chair: Noah Makowicz	Chair: Rie Huntington	Chair: Morgan Powers
Room: BEH G31	Room: BEH 320	Room: BEH 318	Room: BEH G30	Room: BEH G29	Room: BEH 226	Room: BEH 229	Room: BEH 102	Room: BEH 319	Room: BEH 309	Room: BEH 227	Room: BEH G27
Hertrick, Markowitz, and Yang	Chirino, Frye, and Schillinger	Brennan, Gardner, and Mosko	Chaudhry, Johnbosco, and McAfee	Harada, Kulkarni, and Stein	Mahapatra, Moriarty, and Nallapothula	<u>Featured engineers:</u> Michael Casey, Dave Gau, Alyssa Long, Rachel McLoughlin, Danielle Minter	<u>Featured engineers:</u> Jason Esser, Taylor Shipping	<u>Featured engineers:</u> Zack Ramsey, Paige Risley	<u>Featured engineers:</u> Margaret Killmeyer, Beth Lyman, Gaoxiang Zhou	<u>Featured engineers:</u> Chris Mensah, Tara Schroth	<u>Featured engineers:</u> Jared Andes, Nick Andes, Casey Cadman, Patrick Emmett
Dehus, Mbuagbaw, and Roach	Bogler, Mieseler, and Raduazzo	Bogan, Pierson-Balik, and Votypka	Almborg-Perez and Barnes	Canzanese, Ellett, and Jones	Franke, Griffin, and Kuzminski						
Chang, Chettiar, and Sinclair	Osborne, Svor, and Tomalski	Fry, Giblin, and Michener	Compton and Zheng	Ash, Bohinski, and Chung	DiNicola, Larson, and Shafer						
Maier, Schoonover, and Silver	Cardimen, Cashin, and Kuhns	Cagliuso, Spencer, and Wyse	Bosilovich, Dani, and Nowatzki	Bishop, Engblom, and Mains	Day, Rieger, and Stefanac						
Knight, Maroney, and Rabasco	Cheff, Geddes, and Schultz	Carney, Rosenberg, and Zoukovski	Kwasinski, Murphy, and Owiti	Brach, Chanen, and Wang	Galindo DeLeon, McLister, and Pingon						
Dong, Prajapati, and Sciuolo	Heraty, Morgan, and Van Scyoc	Miller, Rodriguez, and Westrick		Glover, Mindak, and Wei	Donatelli, Garverick, and Longstaff						
Bernaides, Glance, and Stipanovich				Ciccarelli, Kulkarni, and Uhlir							
<b><u>Session B13:</u></b>											
ENGR 0716 The Art of Making Capstone Design Project-in-Progress Presentations										Assorted Topics	
Chair: Joseph Samosky										Chair: Sophia Edwards	
Room: BEH G34										Room: BEH G28	
Water Walker: A Modular Floatation Device to Enhance Disabled Children's Relationships with Swimming (Lorenzo Basa, Luke Byun, Soumik Chakraborty, Tyler Fritz, Timmy Green, Brandon Haines)										Curley, Palathunkal, and Wilson	
GymNexus: Where Efficiency Meets Education in Fitness (Thomas Eble, Ben Markworth, Harry Tye)										Khaw, Luo, and White	
HandSwell: Expanding the Grabbing and Releasing Abilities of Children with Limited Motor Skills (Josie Belkin, Mia Falbo, Sarah Ginck, Andru Herold, Reilly Koitzsch)										Ferguson and Wright	
Sit Fit: Developing Better Sitting Habits by Standing Periodically (Felipe Correa, Dennis Ephraim, Jessie Jin, Luke Wang)										Denicore, Genco, and Ross	
										Beres, Francis, and Harrer III	
										George, Mironianski, and O'Grady	

**12:45pm - 1:45pm**  
**LUNCH BREAK**

**1:45pm - 2:15pm**  
**KEYNOTE BY:**  
**KATE GUNDLACH**  
**ARROW MCLAREN**

**2:15pm - 2:45 pm**  
**AWARDS PRESENTATION**

**2:45pm - 3:00pm**  
**BREAK**

**3:00pm - 4:45pm**

<u>Session C1</u>	<u>Session C2</u>	<u>Session C3</u>	<u>Session C4</u>	<u>Session C5</u>	<u>Session C6</u>	<u>Session C7</u>	<u>Session C8</u>	<u>Session C9</u>	<u>Session C10</u>	<u>Session C11</u>	<u>Session C12</u>	
BIOE Topics	CEE Topics	CHE Topics	ECE Topics	IE Topics	MEMS Topics	BIOE Topics	CEE Topics	MEMS Topics	ECE Topics	ECE Topics	CHE Topics	
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Kholmatjonov, Kim, and Rios-Valdez	Bergman, Falkenstein, and Greg	Baker, Patel, and Shin	Cameron, Duberry, and Kariotis	Dong, Gans, and Rahman	Dalfo, Patel, and Sankaran	Franchetti, Sexton, and Wasco	Abramski, DeNadai, and Giacobello	Berger, Cunningham, and Poplawski	Buckner, Gatiru, and Shaneman	Crown and McCall	Fantini, Reed, and Roldan	
Ceccarelli, Myers, and Oglesby	Dorfman, Wilson, and Wood	Cohen, Cook, and Zimmerman	Mooney and Panek	Briese, Dobrin, and Nneji	Arredondo, Haldeman, and Ortiz	Burns, Knapp, and McCullough	Brobst, Bryla, and Sieker	Bard, Mole, and Warriner	Bhogle, Hartmann, and Schachter	Mendt, Morroney, and Zych	Burns, McCloskey, and Plaskow	
Hall, Moody, and Willard	Haurlyluk and Morgan	Jilek, Landon, and Maund	Monti, Oelschlagel, and Schenck	Afanasenko, Neatherly, and Wamaitha	Baxendell and Cobb	Gomolinski, Lawton, and Rothstein	Ananthan, Bazinet, and Schieman	McClain, Potter, and Walsh	Hill, Reed, and Sacco	Krakauskas, Shelley, and Sullivan	Bermejo, Gronwaldt, and Pedroza	
Durham, Swanson, and Zeminski	Barber, Rubincam, and Vento	Daugavietis, Itzhaki, and Miller	Layton, Smith, and Smuszkiewicz	Farmerie, Shipp, and Varley	Leonhardt, Matthew, and Ricci	Goyal, Kelley, and Tseng	Chaudhari, Pfeffer, and Wang	Pesina and West	Davis, Gotthelf, and Setzenfand	Sanori, Subramanyam, and Taylor	Lombardi, Stolarz, and Trudgen	
Lan, Manns, and Williams	Barr, Duffy, and Howe	Beard, Little, and Lombardi	Ambrass and Bauman		Ryalls, Sankofa, and Wiedmann	Barlow, Bubeck, and Gupta	Hersick, Khamar, and Rahman	Chambers and Halsall	Dixson, Tolman, and Valladares	Anis and Schriver	Bair, Hellgren, and Rosenberg	
Dyke, Feichtel, and Justeson	Pereira, Rau, and Ruzicka	Billow, Delgado, and Radilla	Capra, Cole, and Hale		Barnhart, Hile, and Matteo	Kane, Rangel, and Seltz	Kamel, Lowery, and Peralta	Briglia, Del Balso, and Friedman	DiMarco, Flynn, and Tsang	Koontz, Pickup, and Woodard	Gesualdi, Gillis, and Sun	
								Cook, Keenan, and Williams				

**3:00pm - 4:45pm**

<p><u>Session C13:</u> ENGR 0716 The Art of Making Capstone Design Project-in-Progress Presentations</p>	<p><u>Session C14</u> Assorted Topics</p>
<p>Chair: Joseph Samosky</p>	<p>Chair: Emma Stein</p>
<p>Room: BEH G34</p>	<p>Room: BEH G28</p>
<p>Grow and Go: Accessibility in Revolutionary Agriculture Techniques and Technology (Jack Bender, Garrison Brown, Alex Brunco, Daniel Cooper, Sean Lipton, Teagan Posey, Vinay Thulasiram, Luke Vincent)</p>	<p>Fry, Gunendran, and Pendse</p>
<p>Grabbing Attention: Improving Engagement at the Western Pennsylvania School for Blind Children as Students Learn to Grab (Jake Chinchar, David Hand, Reuel John, Varun Patel, Nicholas Town)</p>	<p>Kelly and Sutton</p>
<p>CommChamp: Improving Hospital Staff Communication (Megan Baker, Ben D'Ambrosia, Anthony Paladino, Veda Panchagnula, Alex Tsvetkov)</p>	<p>Chan, Empey, and Weissmann</p>
	<p>Lappen, Pacek, and Pohl</p>
	<p>Carpenter, Stephan, and Wu</p>
	<p>Burrell, Judkins, and Zampogna</p>