Thanks to our judges for their generous time & expertise.

Architectural Engineering: ARE4600
Civil and Architectural Engineering Department Advisory Board

Architectural Engineering: ARE4720
Duncan Kline, P.E., Malone Belton Abel P.C.
Erin Radosevich, P.E., Malone Belton Abel P.C.

Chemical Engineering
John Oakey, Ph.D., UW Chemical and Petroleum Engineering
David Bell, Ph.D., UW Chemical and Petroleum Engineering
Gordon Harris, Ph.D., UW Chemical and Petroleum Engineering
John Myers, Ph.D., UW Chemical and Petroleum Engineering
Joseph Holles, Ph.D., UW Chemical and Petroleum Engineering
Kris Beeman, DynoNobel, Cheyenne
Kevin Jones, DynoNobel, Cheyenne

Civil Engineering/Environmental
Murray Schroeder, P.E., Western Water Consultants, Laramie, WY
Michael Urynowicz, Ph.D., P.E. UW Department of Civil & Architectural Engr
Fritz Krembs, P.E., Trihydro Corporation, Golden, CO

Civil Engineering (Transportation)
Claudia Torrence, P.E., Project Engineer, Trihydro, Laramie
Wes Bay, P.E., Project Engineer, WYDOT Project Development Div, Cheyenne
Chris Pivik, P.E., Design Team Leader, WYDOT Project Dev Div, Cheyenne
Rachael Pivik, P.E., Project Engineer, WYDOT Bridge Design Div, Cheyenne
Scott Taylor, P.E., Resident Engineer, WYDOT, Laramie

Computer Science
Jonathon Benson, Wyoming Technology Business Center
James Caldwell, Ph.D., University of Wyoming
Mona Gamboa, HappyJack Software, Inc.
Patrick Malone, Aristatek, Inc.

Electrical and Computer Engineering
Mark Balas, Ph.D., Head – UW Electrical & Computer Engineering
Jerry Cupal, Ph.D., Professor Emeritus – Electrical & Computer Engineering
Fred Benson, UW Alum, Chair - Department Advisory Committee,
  Retired from Rockwell Collins
Walt Marshal, UW Alum, Retired from Aramco

Petroleum Engineering
Vladimir Alvarado, Ph.D., UW Chemical and Petroleum Engineering
Lamia Goual, Ph.D., UW Chemical and Petroleum Engineering
Mohammad Piri, Ph.D., UW Chemical and Petroleum Engineering
Brian Towler, Ph.D., UW Chemical and Petroleum Engineering
Shunde Yin, Ph.D., UW Chemical and Petroleum Engineering
Senior Design Symposium Schedule
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Presentations Times Vary by Department

Architectural Engineering: ARE4600, Dr. Anthony Denzer
Wyoming Union, West Ballroom, 1-3 PM (Poster Presentations)

Architectural Engineering: ARE4720, Dr. David Mukai
Wyoming Union, West Ballroom, 3-5 PM

Chemical Engineering, Dr. John Myers
Wyoming Union, Family Room, 8 AM - noon

Civil Engineering (Environmental),
Dr. Jonathan Brant and Dr. Patricia Colberg,
Wyoming Union, West Ballroom, 8 AM – 9:30 AM

Civil Engineering (Transportation), Dr. James Kladianos
Wyoming Union, West Ballroom, 9:30 AM -12:30 AM

Computer Science, Dr. Ruben Gamboa
Wyoming Union, Family Room, 1- 5 PM

Electrical & Computer, Dr. David Whitman
College of Engineering and Applied Science
Posters, area near EN1060, 8 AM – 9:15 AM
Presentations, EN1062, 9:30 AM – 2 PM

Petroleum Engineering, Dr. Brian Towler
Wyoming Union, Senate Chambers, 9 AM – 2PM

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12:00 pm
Judges and Advisors Luncheon
College of Engineering and Applied Science
EN1060

Electrical & Computer Engineering Presentations – EN1062
Coordinator: Dr. David Whitman

8:00 am Poster Sessions – Student Lounge--near EN 1060

9:30 am Aquarium Hood Controller
Alex Ticknor

10:00 am Wireless Engine Control Unit Disability System
Ilya Yarovoy

10:30 am Break

10:45 am Affordable Spectrum Analyzer
Ben Arthur & Tyler Beatty

11:15 am Inventory Keeper
Erik Davies

12:00 pm Lunch

1:00 pm Automated Pet Feeding System
Morgan Allen

1:30 pm LED Delineator Post
Brett Green
Civil Engineering (Environmental)
Wyoming Union, West Ballroom, 8 AM – 9:30 AM
Coordinators: Dr. Jonathan Brant and Dr. Patricia Colberg

8:00 am Introduction – Dr. Brant and Dr. Colberg
8:05 am Clearwater Consultants: Arsenic Removal at the 75th Street Wastewater Treatment Facility in Boulder, Colorado
Sean Gossner, Luke Ruff, Colton Hutchinson, Joe Lovett
8:35 am Arrowhead Environmental Consulting: Arsenic Removal Project at City of Boulder’s 75th Street Wastewater Treatment Facility
Cameron Weddle, Chris Savan, Nick Newman, Stacia Slowey, Tony Ostheimer

Architectural Engineering: ARE 4720 Presentations
Wyoming Union, West Ballroom, 3-5 PM
Coordinator: Dr. David Mukai

Two-Story Office Addition with Clerestory in Lincoln, Nebraska

Design Team:
Tristan Cordier
Kevin Erickson
Jason Fernandez
Brock Fiedler
Tyler Hamilton

Group 1:
Tristan Cordier
Kevin Erickson
Jason Fernandez
Brock Fiedler
Tyler Hamilton

Group 2:
Connrado Deniz
Debit Karki
Nathan Landry
Cassie Peterman
Brandt Pickett
Chemical Engineering
Wyoming Union, Family Room, 8 AM - noon
Coordinator: Dr. John Myers

8:00 am Natural Gas to Liquid Fuel
Mentors: Dr. Bell and Dr. Myers
Team: Fisher Cats
Ali Al Musabeh
Faraj Almarri
Mohammed Alyousif
Bennett Carv
Travis Stevenson

8:30 am Production of Acetic Acid from Natural Gas
Mentors: Dr. Bell and Dr. Myers
Team: Green Glacial Gas
Ameen Alabdulaal
Abdusalam Alghamdi
Hassan Alsaraaf
Abduljawad Bu Areash
Evan Dearth

9:00 am Noninvasive Insulin Therapy using Microneedle Perforation and Iontophoresis
Mentors: Dr. Oakey, Dr. Johnson, and Dr. Hoberg (Chemistry Dept.)
Team: Libero
Joshua McConnell
Kaitlyn Mckim

9:30 am Clean Air Power
Mentors: Dr. Towler, Dr. Ackerman, and Dr. Myers
Team: OxyBurn
Khalid Aldhahri
Omar Alrajeh
Daniel Marken
Thomas White

10:00 am Using Ammonia Hydrolysis for a Cellulosic Ethanol Plant
Mentors: Dr. Myers
Team: Ferm Donors
Mohammed Al Bader
Mashhor Aljabrine
Abdullah Alshaikh
Dan Asker
Brandon Ruckman

10:30 am Point of Care Blood Analysis Microchips
Mentors: Dr. Oakey and Dr. Johnson
Team: Sanguis
Paige Fischer
Andrew Jacobson

11:00 am Energy from Algae
Mentors: Dr. Johnson and Dr. Myers
Team: NaturOil
Matthew Fleury
Caitlin Lefebvre
Trevor LeValley
Anthony Richard

11:30 am Natural Gas Liquids to Olefins
Mentors: Dr. Bell and Dr. Myers
Team: Crackers
Salman Almutawa
Mohammed Alzain
Scott Chase
Travis Wells

Computer Science
Wyoming Union, Family Room, 1-5 PM
Coordinators: Dr. Ruben Gamboa

1:00 pm ABESIS: Student Information On Demand
Weston Anderson, Joseph Beckner, Tyrel Ebele

1:30 pm Hydrologic Cross Section Analyzer
William L. Smith

2:00 pm CorCount: Correlation Counting Software
Patrick John Chavez, Nels John Frazier

2:30 pm Music OMR
Alex Wellock, Sam Foust

3:00 pm EZ Faculty Search
Jacob Van Baalen, Matthew Enlow

3:30 pm Quantum Finance: Web and Mobile Application
Elijah Cox, Krishanthan Krishnamoorthy, Joel Stretesky
Petroleum Engineering
Wyoming Union, Senate Chambers, 9 AM – 2PM
Coordinator: Dr. Brian Towler

9:00 am Water Resistivity in the Paradox Basin
   Andrea Alvarez, Joshua Lancaster, Kelly Seidel, and Weikang Li

9:30 am Enhanced Oil Recovery in the Big Horn Basin
   John Gorrell, Caleb Davidson, Landon Dawson, and LeiLei Zhang

10:00am Pitchfork Field Study
   Tayyab Parvez, Omair Sadiq, Rebecca Podio, Rochak Karki, and Dhruba Panta

10:30am Hydraulic Fracturing Methods
   Ali Alsaffar, Tyler Davis, Tyler Dvorak, and Blaine Pelton

11:00am Crosby Field Reservoir Simulation
   Erik Cooper, Tim Kohler, Aleksandra Nations, Ziming Zhu, and Tewodros Debebe

11:30am Investigation Of Pavilion Water Contamination
   Brett McIntosh, Eli Zent, Kristin Boden, and Yafei Liu

12:00 Lunch – EN1062

1:00pm Laboratory Studies of Wellbore Plugging with Bentonite
   Levi Anderson, Yi Bai, Kyle Huseth, and Matthew Melton

1:30pm Bentonite Plug Field Study and WOGCC Regulations
   Patrick Amole, Brad Brinkerhoff, Jeremy Meyers, Frank Micheli