



BYU Chemical Engineering

IRA A. FULTON COLLEGE OF ENGINEERING

YEAR IN REVIEW

MESSAGE FROM THE CHAIR

We are so glad to be back in-person classroom learning this year. With an end of year perspective perhaps the biggest accomplishment this past year was that we passed the ABET accreditation visit with no weaknesses. The visit was virtual this last year, which took a lot of extra work. Thank you to the faculty and staff who helped prepare the documentation and lab videos for the visit, and for responding to the questions of the reviewers in a timely manner. I feel so privileged to work with such dedicated faculty and staff.

We had over 100 students graduate from our department in the 2020-2021 school year. About 30% of these students went to graduate school. About 30% found jobs right after graduation and others have found jobs later. There are still a few students looking for quality jobs in chemical engineering. When you hear of job opportunities, please let us know. We are very grateful for the dedication of the students in our program. They are getting a quality education under trying circumstances.

We would like to thank family members and alumni who have reached out to our students to comfort them when needed and rejoice with them in their successes. We have seen miracles as students have overcome challenges with the help of the Lord, including the loss of parents or loved ones, as well as physical, emotional, and mental challenges. May the Lord bless each one of us as we strive to follow Him and work in this marvelous profession of Chemical Engineering.

Sincerely,
Thomas Fletcher
Professor and Chair of Chemical Engineering

NATIONAL AND INTERNATIONAL STUDENT AWARDS

Creighton Cooper won first place in the AIChE National K-12 STEM Outreach Competition.



(Ryan and Alexa Tucker)

This year's AIChE awards: McKetta Scholarship (Alexa Lowman Tucker), one given in the nation Othmer Scholarship (Ryan Tucker), 15 given in the nation

Outstanding Chapter Award (9th year in a row)

Engineering for Good Competition, 1st place International (Alexa Lowman Tucker and Hanna Robinson Duffy)



Engineering for Good Competition, 1st place (Hanna Robinson Duffy with GEO Team)

Hello Baby Benji!

Amy Wood, Assistant Lab Manager in our department, recently had a baby!

Benjamin (Benji) was born on September 13, 2021 – 9 pounds and 21 inches long



at birth. Benji is her 4th child with 2 excited big sisters and a thrilled brother. Both Amy and Benji are healthy and well.

2020 Graduating Class



Department Statistics

510 Undergraduate students

42 PHD students

14 MS

91% of undergraduate students participated in research

FOLLOW ALONG ON OUR WEBSITE

<https://chemicalengineering.byu.edu/>

In Memory of Our Faculty



Kenneth Allen Solen

Kenneth Allen Solen passed away on November 5th, 2021. He graduated from Berkeley, at age 21, with a degree in Chemical Engineering, completed his masters

in Physiology, and after received his PhD from the University of Wisconsin in Chemical and Biomedical Engineering. He then came to BYU to serve as a professor, receiving the Chemical Engineering department outstanding teaching award 15 times. Dr. Solen was continually engaged with the department and left a legacy scholarship to the department of Chemical Engineering.



Doug Smoot

L. Douglas Smoot passed from this world on January 13, 2020. He earned a degree in Chemical Engineering while playing tennis and basketball for BYU. He continued on to earn a master's

degree and a PhD in Chemical Engineering from the University of Washington. Doug became chair of the Chemical Engineering department and served as the Dean of Engineering and Technology for 17 years. While at BYU, he founded ACERC—one of the world's largest academic research centers to advance combustion engineering technology. He was presented with many awards for his contributions as a Chemical Engineer.



Richard Hanks

Richard W. Hanks passed away on July 31, 2021. Dr. Hanks, received his BS from Yale and his PhD from the university of Utah. He taught at BYU from 1963 to 1992. He served as department chair from 1978 to 1984.

He worked with Jim Christensen on thermodynamics of liquid solutions, with Doug Smoot on the flow characteristics of coal-water slurries for coal gasification, and on non-Newtonian fluid dynamics. He taught classes on flow and transport at both undergraduate and graduate levels. He was a recognized scholar in his field, being author or coauthor on 9 books and 29 journal articles.