

Keeping track: Check out these 2015 highlights...

Engineer-athlete, his team, and professor featured in ad



NEXT ON LAKER TV — Shana Baril of Spectrum Reach shoots video of Lake Superior State University varsity basketball player Michael Smutny and electrical engineering professor David Baumann in one of LSSU's electrical engineering labs. Assisting Baril was videographer Scott Jones.

Spectrum Reach videographer Shana Baril peered through her video lens as mechanical engineering student-athlete Michael Smutny listened to electrical engineering professor and school chair Dr. David Baumann explain the workings of position control circuitry for a DC motor. The innovative lab was designed by students in Dr. Baumann's control systems course which is taken by both electrical and mechanical engineering students.

Baumann's lab and Smutny's journey to becoming a mechanical engineer were grist for a regional television ad. The video began airing throughout Michigan and the Midwest at the end of November.

Smutny, from Saline, Mich., will also be graduating with a math baccalaureate degree.



Click on link to listen to Mike Smutny discuss why he chose LSSU or visit: <https://www.facebook.com/lakestate/videos/10153320757390028/>

Campus Updates



David Roland Finley,
Ph.D., P.E.



Morrie Walworth

- Provost and Vice President for Academic Affairs **Morrie Walworth** shifted to the Fletcher Center as the Interim Vice President for Finance in mid-January.
- **David Roland Finley**, Ph.D., P.E., academic dean of the School of Engineering and Technology, and the Lukenda School of Business, was tapped to step up as interim provost and vice president of academic affairs. Finley will continue to serve as dean in addition to his new responsibilities.
- Annette Hackbarth-Onson joined the LSSU community at the start of the spring semester as the director of admissions.
- Matthew Jurvelin came aboard as the vice president for enrollment services and student affairs in the fall. He took over from Ken Peress who retired in December.
- The Shouldice library's new director, Marc Boucher, who claims to be the world's loudest librarian, joined LSSU this past summer.

U.P. on top



BIRD'S EYE VIEW – Members from the School of Engineering & Technology including faculty, students and friends, wave from the zenith of an arch during a tour of the International Bridge. Mechanical engineering student Mike Smutny, an intern with the International Bridge Authority, assisted with the tour which took place just prior to the start of the fall semester.

Seven alumni, six majors, four decades

Steve Lien '77, from Springfield, Mo., headed an effort to organize a Career Roundtable in September with six friends who attended Lake Superior State College in the late 70s. They graduated with degrees ranging from history to electrical engineering technology.

The group has remained close friends over the years, getting together as work schedules permitted. The group included **Jim Bearman '77**, **Ben Bolser '77**, **Mark Hales '78**, **Paul Iott '77**, **Kim Kowalewsky '77**, and **Charlie Weber '77**.

"During our LSSC formative years at Brady Hall and the Sophomore Village, starting in 1973, nine of us ... built strong friendships and successful careers after our graduation in 1977. Seven of us remain and were gathering in the Sault Ste. Marie area for a reunion in September," said Lien. He continued by saying, "We thought it would be good to share our experiences in an open 'roundtable

discussion' format with the LSSU students, faculty, and surrounding community."

A reception followed the roundtable. Individual students met with several of the alumni for further career discussions. Residents of the School of Engineering & Technology's living-learning community house met with Lien the evening before.

"All of us are from average Midwest families in Michigan, Illinois, and one of the deceased members, Winnipeg, Canada. Despite the notion of LSSC being a small university, we all were able to take the education provided to us turning it into very successful careers," said Lien. The watchword advice was, always be ready to reinvent yourself.

Lien graduated from LSSC with a BS in electrical engineering technology and an associate in computer engineering technology. He retired from Boeing as a senior principal engineer.

Jim Bearman, ('77 accounting) of Jackson, Mich., worked his way up from director of rates with Consumers Energy to vice president of Burton & Associates. **Ben Bolser**, ('77 history) who hails from Atlanta, Mich. served as probate judge and district attorney in Montmorency county. **Mark Hales**, ('78 earth science) became a self-employed petroleum geologist and geological consultant with Exxon-Mobil, and lives in Midland, Texas. **Paul Iott** ('77 electrical engineering technology) will be retiring from Lockheed Martin in San Jose, Calif., where he is a senior staff software engineer. **Kim Kowalewsky** ('77 electrical engineering technology) of Woodstock, Ill., is the DC product manager for RAE DC Products, a division of Bluffton Motor Works. **Charlie Weber** ('77 Business Administration/Management), from Jenks, Okla., is a joint-venture auditor for BP in Houston, Texas, following a career in property accounting.



ALUMNI ROUNDTABLE – Seven college buddies addressed engineering and technology students in late September. From left: Jim Bearman ('77, accounting) past director of rates for Consumers Energy and current vice president of Burton and Associates of Jackson, Mich.; 1977 history graduate Ben Bolser, 26th Circuit Court probate judge for Michigan's Alpena and Montmorency counties; business administration/management grad Charlie Weber ('77) is a joint-venture auditor for BP in Houston, Texas; Mark Hales left Lake State in 1978 with an earth science degree to eventually become a geological consultant with Exxon-Mobil; Paul Iott turned his 1977 electrical engineering technology degree into a career at Lockheed Martin, where he will be retiring as a senior staff software engineer; Kim Kowalewsky ('77 AS, electrical engineering technology), direct-current product manager for RAE DC Products, a division of Bluffton Motor Works; and 1977 electrical engineering technology/computer engineering technology graduate Steven Lien, who organized the roundtable event and is a retired Boeing senior principal engineer.

SPOTLIGHT on design...

Freshman teams complete final exam with a show-down



Introduction to Engineering continues to provide a survey of engineering through a variety of topics and speakers.

At the conclusion, teams are developed for a design project. The “final” includes Pugh analysis, design consultation, evaluation and performance, a design logbook, and peer evaluations.

Performance scores come from both line following and an elimination competition.

Team E6, otherwise known as Overbuilt and Underpaid, took grand champion honors during the table-top robotic challenge. Their robot’s 198 points during competition was edged out by Raging Robot’s first place 201.6, and Team BYOB’s (Bring Your Own Bot) 201.5.

MINDS BEHIND THE MINDSTORM – Overall design project grand champions Overbuilt and Underpaid from LSSU’s Introduction to Engineering project pose for a team shot with their robot. From left: Patrick Kelley (ME from Herron, Mich.), Michael Pung (CE from Lansing, Mich.), Gibson Kramer (ME from Brooklyn, Mich.), and Sheldon Tower (EE from McBain, Mich.).

Senior project: Two teams, new FANUC line



OLD ROBOTS-NEW ERA – LSSU student engineers and their supervisor hoisted one of four new FANUC M10 robots in LSSU’s automated systems laboratory in November. In the foreground are the two-decade-old machines that are being replaced. Members from one of two teams working on the new robot line from left are Nolin Livingston (MfgET major from Adrian, Mich.); Scott Urbanc (ME; Vulcan, Mich.); Steven Morehouse (ME; Lewiston, Mich.); and LSSU Mechanical Laboratory Engineer Jon Coullard. The new line will be officially unveiled to the public on April 29 during senior project presentations and demonstrations.

Detroit-based engineering society charts LSSU chapter

The Engineering Society of Detroit visited campus in late November to launch a new student chapter at Lake Superior State University to serve Michigan's eastern upper and northern lower peninsulas.

On hand were Robert Magee, ESD executive director; Matt Roush, director of communication and public relations; and Heather Lilley, director of membership. Dr. David Roland Finley, interim provost and dean of LSSU's School of Engineering and Technology, provided introductions.

"We want to help you be the very best professional you can be," said Robert Magee. "We will help you with 21st century soft skills. We will help you be better in an interview. We will help you be better in defining and writing your resume."

Finley told the students that in his professional career, ESD was "the professional society to join."

Magee said Lake Superior State will be a "great hub" for ESD in the eastern Upper Peninsula and northern Lower Peninsula, "and our corporate members are very excited to work with you, and to let you meet and shadow our professional members."

The Engineering Society of Detroit was founded in 1895 by a group of graduates from the University of Michigan. A list of members reads like a "Who's Who" of past and present industry and civic giants. Today ESD reaches and represents more than 60,000 engineers and 3,000 companies.

Magee and Finley both agreed that working with a professional organization like ESD can give students a major advantage in their job search.

"Companies are looking for students right out of school who are ready to do real engineering work," Magee said. "So it's very important that you do some internships, do some co-ops so you get practical experience that moves you to the front of the line for hiring."

Magee added that there's never been a better time to be in engineering.

"The thing that I can guarantee you, because I've seen it in my short time at ESD, is that if you finish your degree in engineering, you will get a job," he said.



LEVERAGING SUCCESS – Lake Superior State University engineering students and faculty pose with a delegation from the Engineering Society of Detroit. Standing second row, immediately to the right of the banner and moving left is ESD Executive Director Robert Magee; Matt Roush, director of communication and public relations; and Heather Lilley, director of membership. To Magee's right is David Roland Finley, dean of LSSU's School of Engineering and Technology, and mechanical engineering professor Zakaria Mahmud.

Laker pride at AMT

Applied Manufacturing Technologies in Orion, Mich. announced recently that Craig Salvalaggio (mechanical engineering, '03) will be leading the company as the new vice president of engineering. His responsibilities will include driving growth and business diversity, and retaining his position as director of the general industries market segments

Salvalaggio, who hails from Sault Ste. Marie, Ont., will continue to report to AMT president and CEO, Michael Jacobs.

"With over 13 years experience in the automation industry at AMT, Craig has proven his leadership and will continue to drive the future of the company in his new role."

Founded in 1989, Applied Manufacturing Technologies is a leading supplier of complete consulting, engineering services, and turnkey solutions for the automation and manufacturing industries.

FLASHBACK – Craig Salvalaggio (center) stands with his spring 2003 senior project team Systems 3 Engineering Consultants (from left) included: Ray Arbic, Diane Siemiet, Michelle Deneau, and Desmond Silva. The '03 mechanical engineering grad will take the reins as vice president of engineering at Applied Manufacturing Technologies in Orion, Mich.



SPRING 2016 CALENDAR

Feb. 29-March 4

LSSU Spring Break (offices open)

April 1 & 2 | Norris Center - Cooper Gym

FIRST Robotics Competition

District Event

Opening Ceremonies:

10:30 am Friday, 9 am Saturday

April 8 | 6 pm Cislser Center, Huron Rm.

Annual School of Engineering
& Technology Banquet

April 10 | 7 pm Cislser Center, Crow's Nest

Order of the Engineer Induction
& Ring Ceremony

April 29 | 8 am Cislser Center, Huron Rm.

Industrial Advisory Board meeting

April 29 | 1:15 pm CASET

Senior Project presentations (CAS 1231)
& demonstrations

Industrial Advisory Board

The Industrial Advisory Board increased its ranks during the 2015 spring and fall meetings, adding members from Canada and the United States.

Welcomed to the membership were: Ted Clark, Vice President of Engineering at Superior Fabrication in Kincheloe, Mich.; David Clingen, General Manager, Engineering & Facility Planner at Essar Steel Algoma in Sault Ste. Marie, Ont.; Tony DeMerle, Senior Account Manager with Kawasaki Robotics in Wixom, Mich.; Brad LeBoeuf, Executive Vice President of Systems Control in Iron Mountain, Mich.; Jeff Johnston, Product Development Engineer with Pretec (a Division of Willamette Valley Company) in Eugene, Ore.; and Jerry Timm, Senior Engineer at Michigan Scientific in Charlevoix, Mich.

The 2016 Spring meeting will be held on campus April 29th.

LSSU to host *FIRST* Robotics Competition District Event



ROBOT WORK BEE — Laker Superior State University computer science professor Chris Smith and LSSU electrical engineering technology student Ryan Dettloff from Sault Ste. Marie (LSSU shirt) mentor a robot-building work bee in January with Sault High students of Team #1596, The Instigators. Pictured in the foreground from left are Autumn Beaudoin, Ross Smith, Dettloff, and Brooke Rivenburgh.

The Norris Center's Cooper Gym will be filled to the rafters March 31-April 2 during the university's inaugural FRC District Event. More than 300 high school robotics team students plus family and friends will be in attendance.

Volunteers are needed! More than 80 volunteers are needed per day, from helping set-up on the evening of March 30th through closing ceremonies at 7 pm on April 2nd.



For more information, contact Jeanne Shibley at jmshibly@lssu.edu or register with *FIRST* at https://my.usfirst.org/FIRSTPortal/Login/VIMS_login.aspx. The minimum age for volunteers is 14.

FIRST LEGO League takes center stage



Lights, cameras, robots



The seventh annual LSSU FLL Qualifying Tournament saw field action from seven teams in November. On the left are Lakeside Legends Red Team from Petoskey (Mich.), while on the right are the Battery Bashers from Washington Elementary in the Sault. LSSU engineering students, faculty and staff volunteered, along with area professionals serving as judges. Petoskey Red eventually took the tournament championship, but not before Washington school bettered them in the tabletop competition pictured here. This year's competition theme was Trash Trek, a springboard to consider all manifestation of trash - from food to electronics to hazardous waste - and how planning, recycling and technology can manage it.