150 years of MSM/UMR/S&T

Virtual Open Forum
Wednesday, May 6, 2020
Today’s Agenda

- Knowns and unknowns
- 150th anniversary timeline
- *Forged in Gold*
- Upcoming promotions and events
- Training
Knowns and unknowns

... and known unknowns
150th advisory committee

Alumni
Genevieve Sutton Bodnar, MetE’98, MinE’01
Lister Florence, CE’95, MS IST’06, CSci’07
Rachel Grodsky, CerE’06
Rachel Jung, MBA’09
Daniel Ryan, ME’12
Keith Wedge, GGph’70, MS GGph’71, PhD GGph’73

Students
Palash Bhowmik, CGS
Adriane Melnychuk, CGS
Lawrence Hierlmeyer (StuCo)
Kaedin Kessinger, StuCo (former)
Madison Moore, ArchE’19, StuCo (former)

Faculty
Michael Bruening, History
Larry Gragg (emeritus), History
Ralph E. Flori, PetE’79, MS PetE’81, PhD PetE’87, GGPE

Community
John Butz, City of Rolla
Aimee Campbell, Rolla Area Chamber of Commerce

Staff
Terry Barner
Emily Brickler
Logan Campbell

Andrew Careaga
John Cook
Brooke Durbin
John Gallagher
Mark Gallardo
Debra Griffith
Melanie Keeney, Hist’06, MBA’12
Mindy Limback
Cheryl McKay
Mark Mullin
Neil Outar
Sarah Potter
Lishia Stevens
Mary Helen Stoltz, Engl’95
Roger Weaver
Tory Verkamp
Timeline

- February 25, 2020
  S&T Day at the Capitol
- Homecoming 2020
  Official Kickoff
- November 6, 2021
  Alumni of Influence
- December 2021
  Commencement
Forged in Gold

Commemorative book

- Limited-edition hardcover book written by Larry Gragg
- Save when you pre-order by May 15, 2020
  - $10 off regular retail
  - Free commemorative gift pack, eligible to win prizes

Pre-order offer of $39.99

- $10 off the regular retail price
- Automatic entry to win prizes
- Free commemorative gift pack*

Reserve your copy online at thesandtstore.com

*Included only for orders placed before May 15, 2020.
**Pre-ordered books ship in early October 2020. Tax and additional shipping charges may apply.
769 B.S. Degrees Granted
UMR Ranks 2nd In Nation For Number Of Degrees Granted

Growing Research Mission

Along with the growth of engineering degree programs, Missouri was developing research stations, an effort that quickly saw the establishment of a number of Missouri Agricultural Experiment Stations (MAES) devoted to research and teaching. Through the years, 204 of these have been extant, and many are still active today. While not as large as the national agricultural experiment stations, they represent some of the most important contributions of our state's land-grant universities. The MAES were instrumental in developing and improving agricultural and engineering programs, and their contributions have been significant in advancing knowledge and technology in these fields.

Initially, the former began operating in the early 1900s. Among the MAES was the University of Missouri Research and Experiment Station, which was established in 1908. This station was instrumental in developing new agricultural practices and technologies, such as the cultivation of new crops, the improvement of existing crops, and the development of agricultural machinery. The station also contributed to the research and development of new engineering techniques, such as the design and testing of new machines, the development of new materials, and the improvement of existing materials.

In the early 1900s, the station focused on improving the efficiency of Missouri's agricultural practices. They observed that Missouri's agricultural practices were inefficient and wasteful. They undertook a series of experiments to determine the best methods for growing crops and improving the soil. They developed new methods for planting and harvesting crops, and they improved the quality of the soil by developing new techniques for adding nutrients and improving the soil's texture.

In addition to these contributions, the station also played a key role in the development of Missouri's agricultural and engineering industries. They contributed to the establishment of the Missouri Cooperative State Research Service, which was established in 1908 to promote research and development in the state. They also contributed to the establishment of the Missouri Agricultural Experiment Station, which was established in 1908 to promote the research and development of new agricultural practices.

The station also contributed to the development of Missouri's engineering industries. They undertook a series of experiments to determine the best methods for designing and building new machines. They developed new techniques for the design and testing of new machines, and they improved the quality of the machines by developing new materials and improving the machines' performance.

Finally, the station also played a key role in the development of Missouri's educational system. They contributed to the establishment of the Missouri Agricultural and Mechanical College, which was established in 1908 to promote the education of agricultural and engineering students. They also contributed to the establishment of the Missouri Agricultural and Technical College, which was established in 1908 to promote the education of agricultural and engineering students.

In summary, the Missouri Agricultural Experiment Stations were instrumental in the development of Missouri's agricultural and engineering industries. They contributed to the establishment of new institutions, the development of new technologies, and the improvement of existing technologies. Their contributions were significant in advancing knowledge and technology in these fields, and they remain a vital part of Missouri's agricultural and engineering heritage.

The Missouri Agricultural Experiment Stations were instrumental in the development of Missouri's agricultural and engineering industries. They contributed to the establishment of new institutions, the development of new technologies, and the improvement of existing technologies. Their contributions were significant in advancing knowledge and technology in these fields, and they remain a vital part of Missouri's agricultural and engineering heritage.

The Missouri Agricultural Experiment Stations were instrumental in the development of Missouri's agricultural and engineering industries. They contributed to the establishment of new institutions, the development of new technologies, and the improvement of existing technologies. Their contributions were significant in advancing knowledge and technology in these fields, and they remain a vital part of Missouri's agricultural and engineering heritage.

The Missouri Agricultural Experiment Stations were instrumental in the development of Missouri's agricultural and engineering industries. They contributed to the establishment of new institutions, the development of new technologies, and the improvement of existing technologies. Their contributions were significant in advancing knowledge and technology in these fields, and they remain a vital part of Missouri's agricultural and engineering heritage.
The Story of Missouri S&T’s First 150 Years

1. Growth of a Miner campus
2. Miner students
3. Miner faculty and staff
4. Making the Miner campus more welcoming
5. Miner social life
6. Miners at war
7. Miner athletics
8. Miner pranks
9. Miner scandals
10. Miner relations with central administration
11. Miner impact
Pop-up museum
Coming soon ...

- Missouri S&T Magazine
  August 2020
- Book signing events
  Homecoming, other dates to be determined
- Website launch Fall 2020
  150.mst.edu
- Events, lectures, etc.
Plan and share your 150th events

- Go to calendar.mst.edu
- Click “submit an event” button
- Complete the form
- Under “Group,” click “150”
- Submit
The S&T time capsule

- 32” x 24” x 12”
- Brushed stainless steel finish
- Watertight, foam gasket seal
- Withstands large temperature fluctuations (-40F to 250F)
- Can be displayed or buried in the ground (no vault required)
Legacy line apparel (concepts)
Tell us your stories!

**What we’re looking for**

- Stories that are unusual, important and impressive.
- Stories will be featured in launch of [150.mst.edu](http://150.mst.edu) in October, used in social media and other materials.

**How you can share**

- By phone: 833-Miner150 (833-646-3715)
- By email: [150@mst.edu](mailto:150@mst.edu)
Mini-grant selection committee

- Palash Bhowmik
- Michael Bruening
- Logan Campbell
- Christina Carrig
- Rachel Jung
- Melanie Keeney
- Mindy Limback
- Jennifer Mueller
- Lishia Stevens
- Keith Wedge
Funded mini-grant activities

- The 5th Biennial Field Conference of the American Association of Petroleum Geologists Midcontinent Section
  - Oct. 9-11, 2020
  - The event is hosted by the geosciences and geological and petroleum engineering department, the AAPG Student Chapter, Dake Geology Club, Society of Exploration Geophysics, and Society of Petroleum Engineers. Current AAPG president, Mike Party, is a 1978 alumnus. Up to 100 geoscientists from six states are expected to attend.
Funded mini-grant activities

- Nobel Laureate M. Stanley Whittingham
  - Oct. 16, 2020
  - Whittingham and two others received the Nobel Prize in Chemistry in 2019 for their development of the lithium-ion battery.
  - Whittingham will deliver the 5th annual Stoffer Lecture on the S&T campus.
Funded mini-grant activities

- Eduardo Kac
  - Oct. 23, 2020
  - Artist Eduardo Kac is a contemporary artist whose artwork includes *transgenic* art – an art form based on genetic engineering technique. He will speak about his experiences with the role of technology in fine art and the importance of pushing the boundaries of both.
Funded mini-grant activities

- Boo-Palooza
  - Oct. 31, 2020
  - Missouri S&T, along with the Rolla Downtown Business Association, hosts this annual “trunk-or-treat” event on Pine Street for local area children. The 2020 festival is anticipated to bring over 3,000 people to downtown Rolla.
Funded mini-grant activities

- STEM Fest Rolla
  - November 2020 (tentative)
  - The event will highlight science, technology, engineering and math and how these disciplines depend on diverse perspectives from across campus.
  - Student organizations, academic departments, and local, regional and statewide businesses and organizations will present hands-on, interactive displays to engage visitors in conversations about how S&T impacts their lives.
Funded mini-grant activities

- 150 years of Metallurgical Engineering
  - Nov. 5-7, 2020
  - The celebration will feature speakers, tours of the foundry and advanced manufacturing facility, blacksmithing and other demonstrations, and several social events.
  - Science kits will be shared with teachers and kids to promote the department’s outreach and expose children to STEM.
Funded mini-grant activities

- Original play commissioned for S&T students
  - Feb. 11-14, 2021
  - Missouri S&T’s Theatre Honor Society, Alpha Psi Omega-Psi Nu Cast, will present their 2021 winter production in celebration of the university’s 150th anniversary.
  - The Psi Nu Cast will commission a playwright to write a play that will focus on an important time in the history of computer science.
Funded mini-grant activities

- The St. Pat’s Celebration: A Public Panel
  - March 2021
  - As the university’s longest-running tradition and its signature event, St. Pat’s is an essential subject for discussion, analysis and commemoration during the sesquicentennial.
Funded mini-grant activities

- Happy 150th Formation
  - March 2021
  - While standing in a 150 formation, S&T students, faculty, staff and alumni will be captured by an aerial camera by the Photography Club.
  - Participants will have a chance to share what the university means to them in the documentary of the 150th formation.
Funded mini-grant activities

- Original cantata about Leonardo da Vinci
  - April 25, 2021
  - The University Symphony Orchestra and the S&T Choral Program will premiere a cantata based on the life of Leonardo da Vinci.
  - This new work, written in commemoration of the university’s 150th anniversary, will be written by Taylor Gruenloh with music composed by Kyle Wernke.
  - Rolla resident John Francis will sing the role of Leonardo da Vinci.
Funded mini-grant activities

- TEDx Missouri S&T
  - April 2021
  - 150th logo and theme incorporated into tickets, signage day of the event, website and marketing
  - Potential for speaker(s) to discuss an aspect of S&T in the last 150 years (research, design, innovations, local impact, global impact, etc.)
  - Potential for entire event to be 150th themed (depending on how the committee frames the prompt for presentations)
150th brand training

- Via Zoom
- Learn how to use 150th logo, visual identity
- Required for logo access
- Sign up at 150.mst.edu/brand-training/
Missouri S&T was chartered on Feb. 24, 1870, as the Missouri School of Mines and Metallurgy, and classes were called to order on Nov. 6, 1871.

The first technological institution west of the Mississippi — and one of the first in the nation — the university was a product of the Morrill Act of 1862 and the land-grant movement of the late 19th century. In 2020-21, we will mark a 150-year legacy of discovery, creativity and innovation. Please join us as we honor the university's past, celebrate its present and envision its future.

For more information:

- Website: 150.mst.edu
- Email: 150@mst.edu
- Social media: #Miner150