

Curriculum Vitae: Michael Spiess

Education

1997-2003 U.C. Davis / CSU, Fresno
Ed.D. Degree (Joint Doctoral Program in Educational Leadership), May 2003.

1981-1883 California State University, Fresno
M.S. Degree (Agriculture, Plant Science/Irrigation), December 1983.

1977-1979 California State University, Chico
B.S. Degree (Agriculture Major, with distinction), December 1979.

1975-1977 San Joaquin Delta College
A.A. Degree (Natural Resources Major, with high honors), December 1977.

Experience

Fall 2020-Present California State University, Chico

Professor Emeritus

1/1/15 – 7/31/16 California State University, Chico

Interim Associate Dean College of Agriculture

Spring 2012 – Summer 2015 California State University, Chico

Agriculture Program Coordinator (Chair)

Fall 2009- Spring 2020 California State University, Chico

Professor

Teaching agricultural engineering technology, irrigation, agricultural GIS, and agricultural education

Fall 2003-Spring 2009 California State University, Chico

Associate Professor

Teaching agricultural engineering technology, irrigation, agricultural GIS, and agricultural education

Fall 1997-Spring 2003 California State University, Fresno

Lecturer

Teaching mechanized agriculture, precision agriculture, computer skills and agricultural education resources

July 1999-July 2003 California State University, Fresno

Manager, Agricultural Technology Information Network

ATI-Net is an administrative division of the California Agricultural Technology

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Institute which develops Internet based applications.

1997-Present Peak Consulting

Owner

Developing web sites and Internet applications for businesses and education.

1991-1997 FAMOUS, LLC

Partner

FAMOUS, LLC is the developer of the FAMOUS Agricultural accounting package installed at 1500 sites in over 35 states (as of 1997).

FAMOUS is used by growers, packer-shippers, brokers, and wholesalers of produce.

1984-1997 FAMOUS, LLC

Product Manager/Customer Training and Support

Designed software changes. Planned special projects like integration of automatic faxing into FAMOUS and bar coded pallet/receiving tag systems.

Developed support staff training curriculum and supervised staff. Developed and maintained the company web site and coordinated all company Internet services.

1981-1988 California State University, Fresno

Lecturer (Part-time)

Taught Agricultural Shop Skills, Rural Electrification, Tractors, Welding, Fabrication, Agricultural Computing, Irrigation System Design, and Surveying.

1981-1984 CSU, Fresno / Center for Irrigation Technology

Research Assistant

Developed computer data acquisition and control systems. Performed irrigation equipment testing, system design, and programming.

1980-1981 Sierra Joint Union High School

Vo-Ag Instructor

Grades 9-12, Taught Agricultural mechanics and crops.

1979-1980 Biggs Junior/Senior High School

Vo-Ag Instructor

Grades 7-12. Taught Agricultural mechanics, woodshop, and construction (R.O.P.) Position involved planning and development of a new school farm.

F.F.A. co-advisor.

Instruction

Courses Taught GIS/GPS in Agriculture and Natural Resources Management
Curriculum & Methods in Teaching Agricultural Mechanics
Agricultural Machine Systems
Irrigation
Introduction to Agricultural Mechanics
Directed Work Experience in Field and Row Crops
Precision Agriculture
Welding

Professional Growth and Achievement

Publications, Presentations, and Creative Works

Spiess, M. Foster, D. Smith A. (2023). Cultivating Collaborative Action: National Supply and Demand Data Sharing. AAAE Conference. Raleigh, NC. 5/23

Foster, D. Smith A., Spiess M., Lawver R. (2023). Analyzing Race and Ethnicity Trends of Program Completers in Agricultural Education. Raleigh, NC. 5/23

Smith A., Spiess, M., Foster, D., Lawver R. (2023). Growing Ag Teachers: What is Our Yield? AAAE Conference. Raleigh, NC. 5/23

Ermis, G., De Lay, A., Thompson, J. Freeman, S., Spiess, M. 2021. Pandemic Pedagogy: How Early Career Agriculture Teachers Reflect on Their Practice. Journal of Agricultural Education.

Spiess, M. 2022. Teacher Supply - Looking for the Whole Story. AAAE Conference. Oklahoma City, OK. 5/22

Spiess, M. 2022. Shop Safety Checklist – Got the App? AAAE Conference. Oklahoma City, OK. 5/22

Spiess, M. 2021. Peer Reviews – We Can Do Better! AAAE Western Region Conference. Bozeman, MT 9/2021

Ermis, G., De Lay, A., Thompson, J. Freeman, S., Spiess, M. 2021. Pandemic Pedagogy: How Early Career Agriculture Teachers Reflect on Their Practice. AAAE Western Region Conference. Bozeman, MT 9/2021

Spiess, M. 2020. Peer Reviews – Can We Do Better? AAAE Western Region Conference. Virtual. 9/2020

Spiess, M. 2017. A Method for Determining Qualifying for Career Development Events. AAAE Western Region Conference. Anchorage, AK. 9/2017

Spiess, M. 2016. Gender and Teacher Movement. AAAE Conference. Kansas City, MO. 5/2016

Spiess, M. 2016. Google Maps for Everybody. AAAE Conference. Kansas City, MO. 5/2016

Spiess, M. 2016. California Teacher and Program Demographics – Annual Report. Presented to the California Department of Education, Agricultural Education Unit.

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- Spiess, M. 2015. California Teacher and Program Demographics – A 15 year Review. Presented to the California Department of Education, Agricultural Education Unit.
- Spiess, M. 2014. R-2/FFA Roster Report. Presented to the California Department of Education, Agricultural Education Unit.
- Spiess, M., De Lay, Ann, 2013. Secondary Program Retention. Western Region American Association for Agricultural Education. Lubbock, TX. 9/2013. (3rd place award.)
- Spiess, M., 2012. The Decline of Industrial Technology Education and the Effect on Agricultural Mechanics Instruction. Western Region American Association for Agricultural Education. Bellingham, WA. 4/2012.
- Spiess, M., 2011. An Agricultural Mechanics Project Plan Format (invited poster). American Association for Agricultural Education. Coeur D’Alene, ID. 5/2011.
- Spiess, M., 2011. An Agricultural Mechanics Project Plan Format (peer reviewed poster). Western Region American Association for Agricultural Education. Fresno, CA. 3rd place award. 4/2011.
- Spiess, M. 2010. Initial report of civic engagement of participants in the California Ag Leadership Program (Class 40). 8/10/2010.
- Spiess, M., Aschenbrener, M. 2010. Enhancing Pre-Service Teaching Advising by Adopting a Skills Inventory (invited poster). American Association for Agricultural Education. Omaha, NB. 5/2010.
- Spiess, M., Aschenbrener, M. 2010. Enhancing Pre-Service Teaching Advising by Adopting a Skills Inventory (peer reviewed poster). Western Region American Association for Agricultural Education. Great Fall, MT. First place award. 4/2010.

Grants and Research

- Spiess, M. 2015. Bureau of Reclamation Water Conservation Grant (\$1,250,000) to provide water measurement demonstration facilities and outreach activities to the North State water districts.
- Burt, C., van Overloop, P., Spiess, M. 2011. Agricultural Research Initiative: Improved Management of Agricultural Irrigation Canal Deliveries (\$475,000 total funding, \$35,000 to Chico State.)
- Spiess, M. 2010. Bureau of Reclamation Water Conservation Grant (\$500,000) to provide SCADA and water measurement demonstration facilities and outreach activities to the North State water districts.
- Spiess, M. 2010. Agricultural Research Initiative: Evapotranspiration (ET) Controller Performance in Nut Crops (\$16,400)

Other Professional Activities and Projects

- Developed curriculum for the Oregon FFA (electricity, surveying, machinery) (2022).
- Created and support an online system (software) for submission, review, and scoring of posters for the American Association for Agricultural Education (2006-present)
- Developed and support a tabulations program for Career Development Events (CDE). The program is currently used for 4H, FFA, and Collegiate events at all

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- major events in California as well as in other states and Canada. (2003- present)
- Serve as facilitator for the California Agriculture Teacher Induction Program (CATIP) (2017-2022)
- Helped design and create agricultural mechanics certification assessment for California. (2018-present)
- Created and support an online registration system for California Jackpot Shows. Used by Fresno State, Modesto JC and others. These shows are support youth showing livestock. (2012-2023)
- Developed and support of an on-line registration system (software) for FFA contests. The system tracks registration and provides administrative options to set fees and other attributes of the contests. Note: This system is now part of the CalAgEd web site and is used by 10 colleges and universities for state wide events as well as high school events. (2002-2018)
- Wrote the program review document for the Chico Single Subject Agriculture Subject Matter Preparation Program. Approved by the California Commission on Teacher Credentialing 2010.
- Wrote the program review document for the Chico Agricultural Specialist Instruction Credential. Approved by the California Commission on Teacher Credentialing 2009.
- Regular peer reviewer of papers and poster for presentation at AAEE conferences and the Journal of Agricultural Education. (2003-present)
- Created and support the online record keeping system (software) for California FFA Supervised Agricultural Experience Projects for the California FFA. (2011-2016).
- Developed and support R-2/FFA Roster Software (an online data collection system) to collect data on FFA programs in California. The software is used by all California secondary agricultural education programs. Data collected on over 300 programs and 65,000 students annually. Data is utilized by agricultural education staff and by the California Association FFA. (2000-2016)

Contributions to the University and Community

University Service

- College Curriculum Committee. (2005-2012, 2016)
- College Assessment Coordinator. (2015-2017)
- Search committee for Intuitional Research Director (2015, 2016).
- Search committee for Agricultural Education faculty (2014, 2015, 2016).
- Department Chairs' Executive Committee (2013-2015)
- Search committees for Animal Science, Plant Science (chair), and Agricultural Business faculty (2013)
- University Technology Advisory Committee (2003-present, Chair from 2005-2007)
- Academic Technology Advisory Committee (2003-2012)
- All-University Responsibility for Teacher Education Committee (2008-present)

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- College of Agriculture Research Committee. (2003-2013)
- College of Agriculture Curriculum Committee Chair (2005-2012)
- College of Agriculture Agricultural Education Program Lead (2005-2011)
- College of Agriculture Second Level Review Committee (personnel) (2009-2014, 2017)
- Superior Ag Committee (2003-2011)
- College of Agriculture Agricultural Teaching and Research Center Committee. (2003-2010, 2013-2016)
- Academic advising to an average of 40 students.
- Serve on AgEd Master's committees (average 15 per year). (2013 - 2018)

Other Service

- Chair Audit and Finance Committee American Association for Agricultural Education. (2020-present)
- President Western Region American Association for Agricultural Education. (V.P. national AAAE board) (2015-2017)
- V.P. Western Region American Association for Agricultural Education. (2014-2015)
- Secretary Western Region American Association for Agricultural Education. (2012-2013)
- California Community College C-ID curriculum reviewer. (2010-present)
- CSU Lead for Agriculture Faculty Discipline Review Committee (TMC/CI-D).
- V.P. for Communications American Association for Agricultural Education. (2010-2012)
- California Credentialing Commission Agricultural Specialist Credential Reviewer. (2007-2016)
- Support FFA Career Development Events in California. Edit CATA Curricular Code. Attend annual events at Arbuckle, CSU, Chico, UC Davis, CSU, Fresno, and Cal Poly, SLO. (1980-2019)

Awards

- Hall of Fame, California Ag Teacher's (2023)
- VIP Citation, National FFA (2021)
- Hall of Fame, California FFA (2016)
- Outstanding Principal Investigator, CSU Chico (2016)
- Rotary Outstanding Educator (2013)
- Honorary American FFA Degree, National FFA (2011)
- Honorary State FFA Degree, California FFA (2006)
- AAAE Western Region Service Award (2008)
- CSU, Chico Exemplary Online Instruction (2008)

Other Interests

- Life Member of the Irrigation Association
- Life Member of the California Agricultural Teachers' Association
- Life Member of the American Association of Agricultural Educators
- Life Member of the North American Colleges and Teachers of Agriculture
- Member of the Paradise Irrigation District Water Conservation Committee (2013-2018)
- Member of the Chico High School Agricultural Advisory Committee. (2010-2018)
- Director Butte County Habitat for Humanity (2012-2019)
- Director Western Cave Conservancy. A land trust preserving cave resources in the western U.S. (2010-present, Treasurer 2010-2014, 2016-present)
- Member of Cave Research Foundation, Life Conservation Member of the National Speleological Society.
- Private Pilot (instrument rated)
- Boy Scouts of America (2001-2018) serving a crew advisor, committee member, assistant scoutmaster.