**Jacob P. Vossenkemper**

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Oklahoma State University St. Charles, MO 63301

054 Agriculture Hall

Stillwater, OK  74078

**EDUCATION**

***Masters of Science, Plant and Soil Science (Soil Fertility)***

Oklahoma State University Stillwater, OK

Thesis Chairman: Dr. William R. Raun

Committee Members: Dr. John Solie, Dr. Randy Taylor, Dr Brian Arnall

Thesis: Evidence of Yield Response to Corn as a Function of with-in Row Variably Placed UAN

* *Related Coursework*

Soil Nutrient Management, Soil Morphology, Experimenters Statistics I & II, Research Methodologies in Plant and Soil Sciences, Principles of Stratigraphy and Sedimentology, GIS Applications for the Management of Natural Resources, Advanced Soil Genesis and Classification, Soil Microbiology, Plant Genetics

***Bachelor of Science, Agricultural Science (Soil Science)*** May 2008

***Bachelor of Science, Environmental Geology***

Northwest Missouri State University Maryville, MO

* *Related Coursework*

Soil and Water Conservation, Soil Formation and Classification, Soil Fertility, Introduction to Precision Agriculture, Environmental Geology, Introduction to Hydrogeology, Plant Science, Crop Production, GIS (Geographic Information Systems), Remote Sensing, Chemistry, Geomorphology, Mineralogy, Petrology, Historical Geology, Geo-Spatial Data Analysis, Entomology.

**RESEARCH EXPERIENCE**

***Soil Fertility, Research Assistant*** May-2008

Oklahoma State University: Department of Plant & Soil Sciences Stillwater, OK

* Planned and implemented formal research trials addressing various nutrient management topics
* Processed and analyzed samples for total nitrogen analysis in grain and forage samples for ensuing NUE
* Worked as part of research team that implements over 80 field trials annually including corn, soybeans, wheat, grain sorghum, cotton, and bermudagrass
* In direct cooperation with producers and fellow graduate students, established field scale extension plots throughout Oklahoma, southern Kansas and east central Missouri in both wheat and corn
* Maintained and operated a wide range of agricultural research equipment including precision sensing equipment, small plot research equipment,and full scale agricultural machinery
* Planned, maintained and implemented irrigation, using lateral T&L irrigation equipment
* Ran complete statistical analysis on collected research data using several analysis packages including SAS and Microsoft Excel
* Gained valuable experience in presenting critical agronomic information in an extension format through demonstrations and presentations, internationally and nationally
* Provided Soil fertility consulting services through extension efforts to, Dominion Rice Farms in Kenya, Africa

***Soil Science Intern*** Summer 2007

United States Forest Service: Sierra National Forest Clovis, CA

* Evaluated Forest Service logging roads for erosion and deposition severity
* Worked as part of a team to maintain spider GPS units on Ferguson Rock Slide
* Researched the impact of forest mastication and thinning on key soil quality indicators within the Jose Basin, Sugar Pine, and Cedar Valley project areas
* Identified and located geo-referenced soil transects using hand-held GPS units
* Evaluated soils for compaction, displacement, disturbance, and plant residue cover
* Collected and analyzed bulk density and proctor samples
* Compiled findings of soil quality indicators for compliance with forest service standards and guidelines
* Recommended remediation procedures for detrimentally compacted soils

**PROFESSIONAL EXPERIENCE**

***Precision Agronomy Technician*** October 2005-May 2008

MFA. Inc. Maryville, MO

* Responsible for the supervision of a team that was in charge of collecting geo- referenced data on 20,000 acres annually
* Design soil grid sampling schemes and fertilizer management zones using SST Stratus
* Collected geo-referenced soil samples for nutrient analysis
* Assisted regional precision manager in day to day operations including sales meetings with producers

***Precision Agronomy Technician*** Summer 2006

Soil Right Soil Consulting Shipman, IL

* Created management zones for VRA of soil amendments using Farmworks software
* Designed field maps and management zones using Farm Site Mate software
* Assisted with technical service of environmental quality incentives program
* Presented soil fertility reports, interpretations, and nutrient recommendations to producers

**COMPUTER & LABRATORY SKILLS**

Computer Skills

* N-Tech Greenseeker Software, RT Commander
* Microsoft Word, Works, Excel, Power Point, Front Page,
* ArcGIS,(ArcMap, ArcCatalog, ArcViewer);
* SST Stratus & Summit
* SAS, SPSS
* Farm Works

Laboratory Skills

* Proctor Tests
* X-ray Laser Diffraction
* Laser Particle Analyzer
* Geo Referenced Penetrometers
* Various other Lab Instrumentation

**LEADERSHIP ACTIVITIES**

***Oklahaoma State University Graduate Student Organization*** May 2008-Present

Member

***Alpha Gamma Rho Agricultural Fraternity*** February 2004-May 2008

2006-2007 President

***Northwest Missouri State Ag Club*** August 2003-May 2006

2005-2006 President

***Northwest Collegiate Farm Bureau*** August 2003-May 2008

2006-2007 President

***National Agri-Marketing Association*** August 2006-May 2008

2006-2008 Northwest Agri-Marketing Team

***Northwest Varsity Football*** August 2003-May 2005

**PROFESSIONAL ACTIVITIES**

# *American Society of Agronomy, Soil Science Society of America, Crop Science Society of America*

Member, August 2003 – Present

ASA, CSSA, SSSA Annual Meetings, Houston, TX, October 2008

ASA, CSSA, SSSA Annual Meetings, Pittsburg, PA, November 2009

Oral Presentation: Maize (Zea-maize L.) Grain Yield Response to Nitrogen Applied at Different Distances Away From the Row.

***Geological Society of America***

Member, August 2005 – Present

GSA Annual Meeting, Denver CO, January 2008

Poster Presentation: Soil Productivity and Soil Quality Analysis in Jose Basin Sierra National Forest

GSA Regional Meeting, Evansville IN, April 2008

Poster Presentation: Geomorphic Changes to the One Hundred two River Floodplain near Maryville, Missouri after the May 2007 Flood

***Sigma Gamma Epsilon*** (National Earth Science Honor Society)

Member 2008-Present

# *Nitrogen Use Efficiency Group*

# Participant, August 2008 NUE Conference; Manhattan, Kansas

Participant, August 2009 NUE Conference**;** West Lafayette, Indiana

Poster Presentation: Maize *(Zea-maize L.)* Grain Yield Response to Nitrogen Applied at Different

Distances from the Row

**ABSTRACTS**

**VOSSENKEMPER, Jacob P**., NGUYEN, Lien K., YATES, Janet M., and HICKEY, James C. 2007, Geomorphic Changes to The One Hundred two River Floodplain near Maryville, Missouri After the May 2007 Flood, Geological Society of America *Abstracts with Programs*, Vol. 40, No. 5, p. 72

**VOSSENKEMPER, Jacob P**.,MULLEN, Brian, GALLEGOS, Alan, 2007 Soil Quality Analysis In The Jose Basin Sierra National Forest, Geological Society of America *Abstracts with Programs*, Vol. 39, No. 6, p. 220

## [HICKEY, James C.](mailto:jhickey@mail.nwmissouri.edu), POPE, Diana L., VOSSENKEMPER, Jacob P., and NGUYEN, Lien K. Geo-Mosaic: Integration of Geospatial Analysis in Undergraduate Geoscience Research to Enhance Learning Across The Disciplines, Geological Society of America Abstracts with Programs, Vol. 40, No. 5, p. 15

**POFFESIONAL REPORTS & PRESENTATIONS**

#### VOSSENKEMPER, Jacob P.,MULLEN, Brian, GALLEGOS, Alan, 2007 Sierra National Forest, Jose Basin Soil Productivity And Soil Quality Analysis, Submitted to the United States Forest Service, August 2007

#### VOSSENKEMPER, Jacob P.,MULLEN, Brian, GALLEGOS, Alan, 2007 Sierra National Forest Cedar, Valley Soil Productivity And Soil Quality Analysis, Submitted to the United States Forest Service, August 2007

**VOSSENKEMPER, Jacob P.,** MAY, Jerry, Invited speakers: Wheeler bros Inc. Producer Extension Workshop, “Best Management Practices for Topdressing Winter Wheat”, Canton, Oklahoma, January 2008

MAY Jerry, **VOSSENKEMPER, Jacob P.,** ARNALL Brain, “Large Scale Application of Sensor Based Nitrogen Rate Technology using the GreenSeeker™”, Department of Plant and Soil Sciences, 2008

**VOSSENKEMPER, Jacob P.,** MAY, Jerry, Invited speakers: 1-45th Agribusiness Development Team.

“GreenSeeker™” in Kenya, Africa”, Oklahoma Army National Guard 2009

**VOSSENKEMPER, Jacob P.,** KANKE, Yumiko, Invited speakers: International Ag Programs Seminar. “GreenSeeker™” in Kenya, Africa”, October 2009

**INTERNATIONAL EXPERIENCE**

KANKE, Yumiko. **VOSSENKEMPER, Jacob P.** MAY, Jerry, Precision Sensing Extension Workshop. Kenya, Africa, January 31-Febuary 6, 2009.

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**REFERENCES**

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**Mr. Rick Aspegren**

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**Dr. William Raun**

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**Dr. Jamie Patton**

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