

CURRICULUM VITAE

FACULTY NAME

Bruce Jones

DEGREE FIELD, INSTITUTIONS AND DATE

Ph.D., Industrial, Technological and Occupational Education, University of Maryland/College Park, 1989

M.S., Industrial Technical Studies, Mankato State University, August 1986 (Degree name was changed to Manufacturing Engineering Technology in September 1986)

B.S., Industrial Arts/Technology Education, Mankato State University, 1984

ACADEMIC EXPERIENCE

Instructor, Department of Industrial, Technological and Occupational Education, University of Maryland, College Park, Maryland, 1986–1989, full time

Minnesota State University, Mankato, Professor (Promoted to Associate Professor 1996 and Professor in 1998), Chairperson from 2009 - 2019, 1990-2019, full time

NON-ACADEMIC EXPERIENCE

OTC Division/SPX Corporation, Automotive Engineer, Served on design team that created automotive electronic diagnostic tools. Identified features of the tool, collected data on coverage and helped develop the test plan for tool validation, 2000- 2001, full time

OTC, Owatonna, Test Technician, Conducted validation testing on electronic tools for automotive diagnostic systems, 1990-1992, part time

University of Maryland Vehicle Safety Center, Vehicle Instructor, provided high performance driver training for police cadets, provided driving and hazardous material instruction for people seeking Commercial Drivers License and also State Highway Patrol 1988-1989, part time

ACTIVE MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

Society of Automotive Engineers, Affiliate Member – 33 year member

Twin Cities Section of the Society of Automotive Engineers Secretary, 1998-1999

Twin Cities Section of the Society of Automotive Engineers Chairperson, 1999-2000

Service Technicians Society, Charter Member

HONORS, AWARDS, PUBLICATIONS

Recipient of the Excellence in Contracts Award in 2008 and 2012 from the Office of Research and Sponsored Programs, Minnesota State University, Mankato

Recipient of the College of Science, Engineering and Technology award for Excellence in Student Advising and Leadership, 2002

Recipient of the Douglas Moore Faculty Research Lectureship, Minnesota State University, Mankato, MN. Alternative Fuels: The Future of the Automobile? Presentation given April 13, 1999.

PUBLICATIONS

Mead, G., Jones, B., Steevens, P., Hanson, N., & Harrenstein, J. An Examination of Fuel Pumps and Sending Units During a 4000 Hour Endurance Test in E20, 2009. *Submitted for SAE Publication*

Jones, B., Mead, G., Steevens, P., & Timanus, M. The Effects of E20 on Metals Used in Automotive Fuel System Components, 2008. *Submitted for SAE Publication*

Jones, B., Mead, G., & Steevens, P. The Effects of E20 on Plastic Automotive Fuel System Components, 2008. *Submitted for SAE Publication*

Jones, B., Mead, G., Steevens, P., & Connors, C. The Effects of E20 on Elastomers Used in Automotive Fuel System Components, 2008. *Submitted for SAE Publication*

Mead, G., Jones, B., Steevens, P., Hanson, N., Devens, T., Rohde, C., & Larson, A. The Effects of E20 on Automotive Fuel Pumps and Sending Units, 2008. *Submitted for SAE Publication*

Jones, B.E.; Justin Anderson, Nick Bredemus, Brian Hickok, Peter Kruchoski, Nick Maki, Matt Oien, Adam Oswald, Chad Perrin, Pat Rollenhagen, Matt Sandlin, Dominic Bakken, Timothy Christensen, Brian Fleming, Mark Halbert, Reed Hanson, Jake Jerdee, Jeremy Losinski, Matt Poylio, Tony Rolfes. (2003) "Comparison of An E10 Direct Injection Two-Stroke Cycle Engine and An E85 Four-Stroke Cycle Engine". *Society of Automotive Engineers Technical Paper # 2003-32-0077*

Jones, B.E.; Ready, Kirk; Jeffrey C. Gillen; Jason R. Wilkie; Matthew D. Sandlin; Jeremy J. Losinski; Joseph Mohrfeld; Thomas Hanson; Ryan J. Erickson; Timothy Richard Anderson; Jan L. Smith; Daniel; R. Utes; John T. Kellander; Matthew Poylio; Andrew Joseph Laconic; Neil Jon Swanson (2002). "Thorough Analysis of a Two-Stroke Cycle Engine Versus a Four-Stroke Cycle Engine: Minnesota State University, Mankato's Entry for the SAE Clean Snowmobile Challenge 2002". *Society of Automotive Engineers Technical Paper # 2002-01-2764*

Jones, B.E.; Ready, Kirk; Boerner, Jesse L. Boyle, Brent M. Chamberlain, Chad D. Henrich, Travis Howe, Jeremy Johnson, Eric F. Martinez, Steven A. Mathison, Dan Straumann, Jeremy C. Winkelman (2000). "Development of a Dedicated Ethanol (E-85)-Powered Chevrolet Silverado for the 1999 Ethanol Vehicle Challenge". *Society of Automotive Engineers Technical Paper # 2000-01-0591*

Jones, B.E.; Ready, Kirk; Betcher, Scott; Brandl, Mark; Caldwell, Alan; Erickson, Ryan; Gillen, Jeff; Groth, Lance; Hein, Aaron; Jagusch, LaRue, Dale; Lindeman, Nathan; Martin, Brian; Mills, Josh; Olson, Jesse; Price, Marti; Russenberger, Brett; Thoennes, Jeremy. (2000). 1998 Polaris Indy Trail: An Entry by Minnesota State University, Mankato in the "Clean Snowmobile Challenge 2000. *Society of Automotive Engineers Technical Paper # 2000-01-2547*. Paper presented at the SAE International Off-Highway & Powerplant Congress & Exposition, Milwaukee, Wisconsin, September 11-13, 2000.

INSTITUTIONAL AND PROFESSIONAL SERVICE

Member of the Minnesota Next Gen Biofuels Advisory Task Force – 2012-2013
Member of the Underwriters Laboratories (UL) E85 Technical Panel and the Renewable Energy Analysis Team
Co-Director/Founder, Minnesota Center for Automotive Research (MnCAR) at MSU

FUNDED RESEARCH PROJECTS

March 16 2015–2017	Minnesota Department of Agriculture <i>Next Generation Biomass Thermal Energy Grant Emission Testing</i> Jones, B.E., Mead, G.R.
August 22 2012-2015	Minnesota Corn Research and Promotion Council <i>Enhanced Intermediate Ethanol Blends in Small Engines</i> Mead, G.R., Jones, B.E.
November 16 2011-2012	Parker Hannifin <i>Electric Motor Validation</i> Jones, B.E., Mead, G.R.
September 12 2011-2013	Arctic Cat <i>Vehicle Testing Services</i> Jones, B.E., Mead, G.R.
August 6 2011-2012	Minnesota Corn Research and Promotion Council <i>Intermediate Ethanol Blends in Small Engines</i> Mead, G.R., Jones, B.E.
March 30 2011-2012	e-ride Industries <i>Electric Vehicle Research Services</i> Jones, B.E., Mead, G.R.
February 11 2011-2012	Environmental Technologies <i>Diesel Methane Demonstration Project</i> Jones, B.E., Mead, G.R.
January 24 2011-2012	Northern Wholesale Supply <i>Genset Emissions Testing and Evaluation</i>

Mead, G.R., Jones, B.E.

November 24
2009-2012

Minnesota Department of Commerce
Advanced Automotive Technologies
Jones, B.E., Mead, G., Winstead, V.

July 8
2009-2010

Minnesota Corn Research and Promotion Council
Intermediate Ethanol Blends in Small Engines
Mead, G.R., Jones, B.E.

April 19
2011-2012

Chopper College
E85 Motorcycle Conversion
Jones, B.E., Mead, G.

March 7
2007-2008

Energy and Environmental Research Center at
The University of North Dakota
Optimal Ethanol Blend-Level Investigation
Jones, B.E., Mead G.

December 20
2006

Minnesota Corn Growers Association
Forced Induction Efficiency Study
Jones, B.E., Mead G.

July 18
2006-2007

Minnesota Department of Agriculture
E20 Material Compatibility Research
Mead, G.R., Jones, B.E.

June 20
2006-2008

Minnesota Corn Research and Promotion Council
Small Engine Ethanol Research and Technician Support
Mead, G.R., Jones, B.E.

August 15
2005-2006

Minnesota Department of Agriculture
E20 Material Compatibility Research
Mead, G.R., Jones, B.E.

April 28
2006

Nano Blox
Nano Diamond Oil Additive Research
Jones, B.E., Mead, G.R.

August 15
2005-2006

Minnesota Corn Research and Promotion Council
Use of 20% Ethanol Blends in Unmodified Passenger Vehicles
Jones, B.E., Mead, G.R.

July 5
2004

Energy and Environmental Research Center at
The University of North Dakota
Sulfur in Gasoline
Jones, B.E., Mead, G.R.

August 15
2004-2005

Minnesota Corn Research and Promotion Council
Development of an EB-Diesel Fuel Blend
Jones, B.E., Mead, G.R.

August 15
2003-2004

Minnesota Corn Research and Promotion Council
Particulate Emission Characteristics of Ethanol/Diesel Fuel Blends
Jones, B.E., Mead, G.R.

August 15
2003-2004

Minnesota Corn Research and Promotion Council
*Stationary Engine Emission Characteristics of Ethanol/Diesel
Fuel Blends*
Jones, B.E., Mead, G.R.