RESUME

Mark N. Glauser

Professor Mechanical and Aerospace Engineering Professor, Department of Physics Syracuse University

HOME

8546 Lamp Post Circle

Phone: (315) 682 -1878

Manlius, NY 13104

OFFICE

Syracuse University 227 Link Hall Syracuse, NY 13244

Phone: (315) 443-2823 Fax: (315) 443-9099 E-mail: mglauser@syr.edu

CITIZENSHIP: USA

DATE OF BIRTH: March 10, 1957

MARITAL STATUS: Married, Gina J. (Lee), July 29, 1984

CHILDREN: Stephen Jinho, Kristen Unok

EDUCATION:

Ph.D. - Fluid Dynamics, University at Buffalo, SUNY, August 1987
Dissertation Advisor: William K. George, Jr.
Major Research Area: Application of a Proper Orthogonal Decomposition to Large Eddy Structures in a Turbulent Axisymmetric Jet Mixing Layer

B.S. - Mechanical Engineering, University at Buffalo, SUNY, 1982

PROFESSIONAL EXPERIENCE

Associate Dean for Research and Doctoral Programs, LC Smith College of Engineering and Computer Science, Syracuse University (January 1, 2008 – Present)

Professor, Mechanical and Aerospace Engineering, Syracuse University (July 1, 2001 – Present).

Professor, Department of Physics, Syracuse University (July 1, 2008 – present).

Sabbatical Leave as Senior Research Scientist, Jan 1 - June, 30, 2007 at WPAFB, AFRL/VACA.

- Associate Director for Research, "New York State Environmental Quality Systems Center" A Syracuse University led Strategically Targeted Academic Research Center. (July 1, 2001 Present)
- Program Manager, "Turbulence and Internal Flows," Air Force Office of Scientific Research (AFOSR), Washington, D.C., (Sept. 1, 1996 August 31, 1999).
- Adjunct Professor, Mechanical and Aeronautical Engineering, Clarkson University (July 1, 2001 June 30, 2003)
- Professor, Mechanical and Aeronautical Engineering, Clarkson University (July 1, 1998 June 30, 2001).
- Associate Professor, Mechanical and Aeronautical Engineering and Institute for Nonlinear Studies, Clarkson University (July 1, 1993 June 30, 1998).
- Fulbright Fellow and Visiting Senior Research Scientist, Laboratoire d Etudes Aerodynamiques, Universite de Poitiers, Poitiers, France (June 1, July 31, 1995).
- Visiting Senior Research Scientist, NASA Langley Research Center (June 1, 1994 May 31, 1995) (Sabbatical Leave).
- Assistant Professor, Mechanical and Aeronautical Engineering and Institute for Nonlinear Studies, Clarkson University (Sept. 1987 June 30, 1993).
- Recipient: NASA Graduate Student Researchers Fellowship, NASA/Ames Research Center (1984 1987) (NASA Advisor: Parviz Moin).
- Research Assistant, Turbulence Research Laboratory, University at Buffalo, SUNY, (1983 1984).
- Teaching Assistant, University at Buffalo, SUNY (1982 1983).
- Undergraduate Research Assistant, Turbulence Research Laboratory, University at Buffalo, SUNY (1981 1982).

Junior Mechanical Engineer, Alcan Aluminum Company, Oswego, NY (Summer 1981).

HONORS and AWARDS

Fellow, American Institute for Aeronautics and Astronautics (AIAA), 2011

Fellow, American Physical Society (APS), 2007

Fellow, American Society of Mechanical Engineers (ASME), 2002

Fellow, The Institute of Physics (UK), 2004

Associate Fellow, American Institute of Aeronautics and Astronautics (AIAA), 2001

2003 ASME Robert T. Knapp Best Paper Award

Invited Speaker and Participant, National Academy of Engineers (NAE), Frontiers in Engineering, Beckmann Center, University of California, Irvine, September 1998.

Fulbright Fellow, June 1 - August 2, 1995, CEAT/LEA University of Poitiers, Poitiers France.

Member, New York Academy of Sciences

Chair, Syracuse University Remembrance Scholar Selection Committee, 2012 – present Syracuse University Chancellor's Citation for Excellence in Research and Scholarship The 2006 Barry L. Wells Man of the Year Award, African American Male Congress, Syracuse University.

The 2006 James K. Duah-Agyeman Award, Collegiate Science & Technology Entry Program (CSTEP), Syracuse University.

Syracuse University Gateway Learning Community Faculty Fellow (2004- present).

Invited Speaker at the 2006 Syracuse University Remembrance Scholar Convocation

Filtertech Outstanding Faculty Award, MAME Department, Syracuse University, 2003.

Clarkson's Million Dollar Club, September 1998.

Clarkson Phalanx Commendable Service Award, April 1998.

Outstanding Advisor, Clarkson University, 1988-1989, 1995-1996.

Lead Editor (with J.P. Bonnet and T.B. Gatski) (1993), Special Issue of Theoretical and Computational Fluid Dynamics entitled "Turbulent Eddy Structure and Dynamics," Vol. 5, Number 4-5.

Co-editor with J.P. Bonnet of Hardbound Volume (1993) published by Kluwer entitled "Eddy Structure Identification in Free Turbulent Shear Flows."

NASA/ASEE Summer Faculty Fellow, NASA Langley 1991, 1992.

Who's Who in Science and Engineering, (Second Edition), 1993.

My Ph.D. student, Larry Ukeiley was awarded a Chateaubriand Fellowship from the French Embassy and spent 1 year in Poitiers, France.

NASA Graduate Student Researchers Fellowship, NASA/AMES Research Center, 1984-1987.

Winner of 2nd prize, Scientific Poster Competition, held at the 100th Anniversary Celebration of the Society of Sigma XI, Western New York Chapter, April 30, 1986.

PROFESSIONAL INTERESTS

Turbulence and Multi-phase flows, Active Feedback Flow Control, Unsteady Aerodynamics, Aeroacoustics, Wind Energy, Fluid Mechanics of Built Environments, Fluid Mechanics of coughing and breathing of humans, Dynamical Systems, Heat Transfer, Applied Mathematics, Signal Processing and Instrumentation; K-12, Undergraduate and Graduate Education.

PROFESSIONAL ACTIVITY

Member, Army Science Board (pending, still needs to be approved by the Sec of Defense and the Sec of the Army), Fall 2012 -

Syracuse University Point of Contact for the Transborder Research University Network (TRUN)

Key point person along with Suresh Santanam, for the Great Lakes Sustainable Energy

Consortium (GLSEC).

Associate Editor, AIAA Journal (January 2008 – present)

Technical Chair, 2006 AIAA Summer Fluids Meeting in San Francisco

Chair, 56th Annual Meeting, APS Division of Fluid Dynamics, Nov 23-25, 2003, (The meeting was held in New Jersey and NYC and is the largest world wide in the area of Fluid Dynamics ~ 1350 participants)

Member, AIAA Fluid Dynamics Technical Committee (2004 – 2010), served as Chair of subcommittee on Experimental and Theoretical Fluid Dynamics, also, was member of Fluids TC Steering Committee

Leader, AIAA Fluids TC Working Group, Fluid Information Triad (Jan 07 – Jan 09).

Member, NASA Langley Fundamental Aerodynamics Peer Review Panel, January 2009.

Member, Organizing Committee and Keynote Speaker, IUTAM Symposium on "Flow Control and MEMS," September 2006, Imperial College, London.

ABET Evaluator for Aerospace Engineering programs (Fall 04 - present).

University Senate, Syracuse University, 2002 – 2008

Member, SU Remembrance Scholar Selection Committee, 2004 – present

Posse Mentor, Syracuse University, City of Miami Mentees, summer 2012 - present

Member, SU Senate Committee for Athletic Policy, 2003- present

Chair, Syracuse University MAE Dept. Promotion and Tenure Committee, 2003 – 2006.

Member, MAE Undergraduate Curriculum Committee, 2004 – present

Engineering and Computer Science Deans Search Committee, SU, 2003-2004

Faculty Senate, Clarkson University 1989 - 1994, Vice-Chair 1992-93.

University wide Promotions Committee, Clarkson University, 1999-2001.

Engineering Deans Search Committee, Clarkson University 2000-2001

Co-Organizer, Symposium on the Measurement and Modeling of Large-Scale Turbulent Structures, ASME Montreal 2002 FED Conference

Invited Participant, NSF Sponsored workshop on Improving Undergraduate Fluid Mechanics Education, University of Michigan, October 3 & 4, 2000.

Editorial Board, Journal of Turbulence (JoT).

NSF Panelist: Turbulence and Flow Control, Summer 2008

NSF Panelist: Energy for Sustainability Program, Spring 2007.

NSF Panelist: Turbulence and Flow Control, Fluid Mechanics Division, Spring 2006.

NSF Panelist: Turbulence and Flow Control, Fluid Mechanics Division, Fall 2005.

NSF Panelist: Turbulence and Flow Control, Fluid Mechanics Division, Fall 2004.

NSF Panelist: Major Research Instrumentation (MRI) grants, Fluid Mechanics Division, Spring 2003.

NSF Panelist: Scientific Equipment Grants, Fluid Mechanics Division, Washington, D.C. Spring 2000.

NSF Panelist: Scientific Equipment Grants, Fluid Mechanics Division, Washington, D.C. January 1995.

NSF Panelist: Scientific Equipment Grants, Fluid Mechanics Division, Washington, D.C. April, 1991.

Session Chair: Separation Control, 50th AIAA Aerospace Sciences Meeting, 9-12 January 2012, Nashville Tennessee

Session Chair: Special Topics in Stability, Transition and Turbulence II in Honor of William Saric, 41st AIAA Fluid Dynamics Conference and Exhibit, 27-30 June 2011,

- Honolulu, Hawaii.
- Session Chair: Aerodynamics of Massively Separated Low Reynolds Number Flows, 49th AIAA Aerospace Sciences Meeting, 4-7 January 2011, Orlando Florida
- Session Chair: Integrating Experimental, Theoretical, and/or Computational Approaches, 39th AIAA Fluid Dynamics Conference and Exhibit, June 2009, San Antonio Texas.
- Session Chair: Dialog on Challenges in Flight Mechanics, 47th AIAA Aerospace Sciences Meeting, January 5-9, 2009, Orlando, Florida
- Session Chair: Transition and Turbulence: RANS/LES/DES, 47th AIAA Aerospace Sciences Meeting, January 5-9, 2009, Orlando, Florida
- Session Chair: Further Case Studies in the Fluids Information Triad, 38th AIAA Fluid Dynamics Conference and Exhibit, June 2008, Airport Double Tree Hotel, Seattle Washington
- Session Chair: Further Case Studies in the Fluids Information Triad, 46th AIAA Aerospace Sciences Meeting and Exhibit, 7-10 January 2008, Grand Sierra Resort, Reno, Nevada.
- Session Chair: Case Studies in Fluids Information, 37th AIAA Fluid Dynamics Conference and Exhibit, 25- 28 June 2007, Hyatt Regency Miami Florida.
- Session Chair: Unsteady Flows, 45th AIAA Aerospace Sciences Meeting and Exhibit, 8-11, January 2007, Reno, Nevada
- Session Chair: Turbulent Shear Flows I, The American Physical Society 59th Annual Meeting of the Division of Fluid Dynamics, Tampa, Fl, November 19-21, 2006.
- Session Chair: Turbulent Flows, 44th AIAA Aerospace Sciences Meeting and Exhibit, 9-12 January 2006, Reno, Nevada.
- Session Chair: Turbulent Jets and Wakes, The American Physical Society 58th Annual Meeting of the Division of Fluid Dynamics, Chicago, Ill, November 20-22, 2005.
- Session Chair: Fluid Structure Interaction and Morphing, 35th AIAA Fluid Dynamics Conference and Exhibit, 6-9 June 2005, Toronto, Canada.
- Session Organizer and Chair: Toward Feedback Flow Control for Aeroacoustic Applications, 35th AIAA Fluid Dynamics Conference and Exhibit, 6-9 June 2005, Toronto, Canada.
- Session Chair: Turbulent Flows, 43rd AIAA Aerospace Sciences Meeting and Exhibit, Reno, NV, 10-13 January 2005.
- Session Chair: Separated Flows III, The American Physical Society 57th Annual Meeting of the Division of Fluid Dynamics, Seattle Washington, November 21-23, 2004.
- Session Chair: Unsteady-Flow Applications, 34th AIAA Fluid Dynamics Conference and Exhibit, Portland, Oregon, 28 June 1 July 2004.
- Session Chair: CFD Validation/Comparisons to Experiment 1, 42nd AIAA Aerospace Sciences Meeting and Exhibit, Reno, NV, 5-8 January 2004.
- Session Chair: 4th ASME/JSME Joint Fluids Engineering Conference, July 6th 10th, 2003, Honolulu, Hawaii.
- Session Chair, "The Measurement and Modeling of Large-Scale Turbulent Structures-II", 2002 ASME Joint US-European Fluids Engineering Division Summer Meeting, July 14-18, 2002, Montreal, Quebec.
- Session Chair: IUTAM Symposium on Turbulent Mixing and Combustion, Queen's University at Kingston, Canada, June 3-6, 2001.
- Session Chair: Separated Flows and Wakes I, 51st Meeting of the Fluid Dynamics

- Division of APS, November 1998.
- Session Chair: Control of Separated Flows and Jets, 28th AIAA Fluid Dynamics Conference, Snowmass Village, CO, June 29 July 2, 1997.
- Session Chair: "Turbulence II," Session FD-32, 25th AIAA Fluid Dynamics Conference, Colorado Springs, CO, June 20-23, 1994.
- Session Chair: "Separated Flow CFD," Session BE, Program of the 1994 Annual Meeting of the APS Division of Fluid Dynamics, November 1994, Atlanta, Georgia.
- Session Chair: "Experimentally-Based Dynamical Fluids Models," Program of the Society of Engineering Science 31st Annual Technical Meeting, October 10-12, 1994, Texas A&M University, College Station, Texas.
- Session Chair: "Turbulent Mixing Layers," Session EE, Program of the 1993 Annual Meeting of the APS Division of Fluid Dynamics, November 1993, Albuquerque, N.M.
- Session Chair: "Instability Phenomenon," Second World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Croatia Hotel, Dubrovnik, Yugoslavia, June 23-28, 1991.
- Session Chair: "Experimental Techniques II," 41st Annual APS Meeting of the Division of Fluid Dynamics, University at Buffalo/SUNY, Buffalo, NY, November 20-22, 1988.
- Session Chair: "Turbulent Incompressible Mixing Layers I," 43rd Annual APS Meeting of the Division of Fluid Dynamics, Cornell University, Ithaca, NY November 18-20, 1990.
- Session Chair: "Turbulence Theory III," 44th Annual APS Meeting of the Division of Fluid Dynamics, ASU, Scottsdale, Arizona, November 24-26, 1991.
- Session Chair: "Multiphase Flows and Turbulence," Society of Engineering Science 28th Annual Technical Meeting, University of Florida, Gainesville, Florida, November 6-8, 1996.
- Session Chair: "Numerical Techniques," ASME Computers in Engineering Conference, Boston, MA, Summer 1990.
- Reviewer for: NSF; Physics of Fluids; Journal of Fluid Mechanics; ASME Journal of Fluids Engineering; ASME Gas Turbine Division; National Fluid Dynamics Congress; International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics; International Journal for Numerical Methods in Fluids: AIAA Journal, Experiments in Fluids, Experimental Thermal Fluid Science, Applied Scientific Research, Theoretical and Computational Fluid Dynamics.
- Organized 2 sessions for 12th U.S. National Congress of Applied Mechanics, Seattle, Washington, 1994.
- Meeting organizer for the 7th Iroquois Conference on Fluid Mechanics, April 1990. Syracuse University.
- Member, Organizing Committee IUTAM Symposium on "Eddy Structure Identification in Free Turbulent Shear Flows," Oct. 12-14, 1992, Poitiers, France.
- Committee Member for several Masters and Ph.D. Theses at Clarkson.
- Reporter on Ph.D. Thesis of J. Delville, CEAT/LEA, Poitiers, France, January 1995.
- Outside reader for Ph.D. Theses at other Universities in the US, Canada and Europe.
- Jury Member, Ph.D. Thesis of Stephan Gamard, Chalmers University, Gothenburg, Sweden, June 2002.

Outside Reader, Ph.D. Thesis, University of Western Ontario, London Ontario, Spring 2003

Reporter, Ph.D. Thesis, University of Poitiers, Poitiers, France, Summer 2003

Reporter, Ph.D. Thesis, University of Poitiers, Poitiers, France, March 2007.

TEACHING EXPERIENCE

AIAA Deputy Director for Education, Northeast Region 1994-1998

AIAA Advisor, Clarkson University 1991-1994

Clarkson hosted AIAA Student Conference, April 1994.

Director, Undergraduate Labs in MAE at Clarkson 1987-1994, 1998 - 1999

Taught the following courses:

Syracuse University:

MAE 315, Mechanical and Aerospace Laboratory (Fall 06, 07, 08, 09, 10, 11)

MAE 321, Vibrations (Spring 08, 09)

MAE 415, Mechanical and Aerospace Engineering Laboratory (Fall 03, 04, 05, 06)

MAE 341, Introduction to Fluid Mechanics (Fall 01, 02)

MAE 421, Vibrations and Control (Spring 02, 03, 04, 05, 06)

MAE 545, Applications of Fluid Mechanics (Fall 05)

MAE 741, Turbulence (Fall 02, Spring 04, 05, 06, 08, 09, 10, 11, 12)

Clarkson University:

ES 100, Introduction to Computer

ME 470, Aeronautical Engineering Lab (developed the course)

ME 370, Mechanical Engineering Lab

Fluid Mechanics (Graduate Level)

Boundary-Layer Theory (Graduate Level)

Turbulence (Graduate Level)

Advanced Turbulence (Graduate Level)

ME 365 Independent Projects

ME 465 Advanced Independent Projects

General Advisement and Mentoring Activities:

Advised or am currently advising 5 post docs, 22 Ph.D. students (4 currently), 26 MS students (1 currently), 30+ REU students and 500+ Mechanical and Aerospace undergraduates in addition to mentoring many students from underrepresented groups from all disciplines (pre-med, Law, physics, etc) through SU's Gateway Learning Community, CSTEP and AGEP programs.

Awarded "Outstanding Advisor," Clarkson University, 1988-1989, 1995-1996 and the Filtertech Outstanding Faculty Award, MAME Department, Syracuse University, 2003

Short Course Lecturer for:

The Art and Science of Dynamic Flow Measurements. University at Buffalo, SUNY, and Dantec (DISA) Electronics. Summers 1987, 86, 83, 82

CCNY and Dantec, Workshop on Laser Doppler Anemometry with an Introduction to Constant Temperature Anemometry, NYC, NY (June 13-16, 1989).

Teaching and Service to Local Community:

Invited Speaker to the Syracuse Community, ``Turbulence, can we control it?'', Café Scientific, Ambrosia Restaurant, Armory Square, Nov 7, 2006

Given several lectures/wind tunnel demos on Aerodynamics to Tiger Cubs, Boy Scouts and Potsdam's fifth grade enrichment class.

Participant in Alexandria Bay school career days.

Lecturer on Aerodynamics to 10-15 year old children, Potsdam Days, July 1990.

Lecturer for Project Challenge, Clarkson University, 5 week course on Aerodynamics For High School Sophomores - Seniors, Spring 1991, 1992 and 1993.

SHORT COURSES ATTENDED

An advanced Short Course in Aero- and Hydro-Acoustics, University of California, San Diego, April 7-11, 1986

Fundamentals and Recent Advances in Hypersonics, University at Buffalo, SUNY, August 19-22, 1986

SOCIETY AFFILIATION

Fulbright Society
Society of the Sigma Xi
American Institute of Aeronautics and Astronautics
American Society for Engineering Education
American Society of Mechanical Engineers
New York Academy of Sciences
Pi Tau Sigma
Tau Beta Pi
American Physical Society
Institute of Physics

RESEARCH GRANTS (M. Glauser PI unless otherwise noted)

At Syracuse University:

Spectral Energies, LLC/AFRL Phase 2, SBIR, `` Identification and Active Control of Jet Noise Sources Using High Resolution Coupled Measurement Devices and Methods'', \$266,000 1/1/2012 – 4/23/2014

- General Electric, "Development of a Toolkit for the Analysis of High-Speed Flows", \$70,000, 3/7/2012 12/31/2013
- Innovative Scientific Solutions, Inc, (J. Dannenhoffer PI, M. Glauser Co-PI) "Development of a Toolkit for the Analysis of High-Speed Flows", \$41,000, 1/1/2012 6/30/2013
- Leskiw Associates, LLC/AFOSR Phase 1, STTR, (P. Varshney PI, M. Glauser Co-PI), "Mission Prioritized Lossless Data Compression", \$46,000, 11/1/2011 7/31/2012
- DOE/University of Minnesota, ``An Industry/Academe Consortium for Achieving 20% Wind by 2030 through Cutting-Edge Research and Workforce Training'', \$135,000, 1/15/2010 12/31/2012.
- Haledyne, Grants4Growth, "Simulation of Haledyne IAS/HAS-74", \$17,500, 2/15/2011 2/14/2012.
- Spectral Energies, LLC/AFRL Phase 1, SBIR." Identification and Active Control of Jet Noise Sources Using High Resolution Coupled Measurement Devices and Methods", \$24,000 2/15/2011 10/15/2011
- ISSI/AFRI, "Ejector Design for Air Capabilities", \$40,000, 8/15/2010 8/14/2011
- AFOSR, "Closed-Loop Control for High Reynolds Number Compressible Turbulent Jets", \$75,000 8/1/2010 7/15/2011
- AFOSR/AFRL, "Advancement of Intelligent Aerospace Systems", \$900,000, 2/1/2009 2/28/12 (Joint effort with Clarkson, Glauser PI on SU effort).
- AFRL/Clear Science Corp, Phase 2 SBIR, ``Feedback Flow Control for a Three-Dimensional Turret''\$265,000, 4/1/2008 9/30/2011 (Note, CASE funding associated with this for 1 GA for Fall 07 Sp 10, Sp 11)
- AFOSR, ``Closed-Loop Control for High Reynolds Number Compressible Turbulent Jets'', \$70,000, 4/1/08 11/30/08
- AFOSR, "Feedback Flow Control with Experiment Based Order Reduction", \$83,030, 1/1/2007 6/30/2007.
- AFOSR, "Separated Turbulent Shear Layer Modification via Feedback Flow Control", \$75,000, 11/1/06 12/31/07.
- AFOSR, "Noise Identification in a Hot Transonic Jet Using Low-Dimensional Methods", \$320,000, 1/1/05 12/31/07.
- AFOSR, "Separated Turbulent Shear Layer Modification via Feedback Flow Control", \$66,000, 6/1/06 12/31/06.
- EPA, "Computational and Experimental Techniques for Human Health and Security in Indoor Environments", \$120,000, 7/1/06 5/31/09. Note, this is a joint effort with Professor Ahmadi at Clarkson. Total project is \$300,000.
- EPA, Strategically Targeted Research in Intelligent Built Environmental Systems (E. Khalifa, PI; Mark Glauser, Co-PI; Larry Tavlarides, Co-PI; Jensen Zhang, Co-PI; P. Varshney, Co-PI), \$3,000,000, 9/30/04 12/31/06.
- EPA, Development of Alternative Approaches to Assessing the Impact of Pollutants on Environmental Systems: Part 1 of 2: Human Exposure to Indoor Pollutants in Personal Microenvironments (E. Khalifa, PI; Mark Glauser, Co-PI; Hiroshi Higuchi, Co-PI; Jensen Zhang, Co-PI; Thong Dang, Co-PI), \$650,000, 8/30/2003 2/28/2005.
- NSF Alliance for Graduate Education and the Professorship, "The Central New York to

- Puerto Rico-Mayaguez Alliance for Graduate Education'', (Gina Lee-Glauser, PI; Mark Glauser, Co-PI; Stacey Tice, Co-PI), \$2,500,000/5 years. SU lead, academic partners, RPI, Cornell and the University of Puerto Rico-Mayaguez.
- AFOSR, "Low Dimensional Methods for Jet Noise Control", \$300,000, 12/01/01 11/15/04.
- Clear Science Corp (CSC)/AFOSR –STTR Phase 1, ``Closed-Loop Control of Separation in Subsonic and Transonic Flows,'' \$30,000, 10/15/01 10/14/02. Phase 2, \$175,000, 01/01/03 5/14/05. (M. Glauser, PI, H. Higuchi, Co-PI)

At Clarkson University:

- BEAM Technologies/AFOSR –STTR Phase 1, "Synthesized Controller Design for MEMS-Based Flow Separation Management" \$30,000, 9/01/00-8/31/01.
- NASA NY Space Grant/Cornell University, "Fluid Mechanics and Aerospace Engineering", \$32,000, 02/01/01-01/31/02.
- NSF, Particle Transport, Deposition and Removal: Combined Research-Curriculum Development, (G. Ahmadi, PI, M. Glauser Co-PI) \$400,000, 03/15/01 3/14/04.
- NASA Langley Research Center, GSRP Grant, "Utilizing Particle Image Velocimetry and Surface Pressure Measurements to examine and Control Unsteady Incipiently Separating Flows," \$66,000, July 1, 1999 June 30, 2002.
- NASA Langley Research Center, GSRP Grant, \$66,000, "Examining Flow-Induced Vibrations by Low Dimensional Modeling Utilizing Particle Image Velocimetry and Accelerometers," July 1, 1999 June 30, 2002.
- NASA Langley Research Center, "Jet Mixing Enhancement by Feedback Control," \$50,000, Jan. 1, 1999 December 31, 1999.
- NSF, Time Dependent PIV, Equipment Grant, \$85,000, Sept. 1, 1998 Aug. 31, 1999.
- NSF, High Speed Image Acquisition and Motion Analysis for Research and Education, Equipment Grant (PI, J. Yamamuro, Co-PIs, M. Glauser, J. Dempsey, S.P. Lin and T. Theis), \$79,867, May 1, 1998 April 30, 2001
- BEAM Technology/NASA Langley SBIR Phase II, "Active Wing-A Verified Tool for Design of Active Flow Control Systems for High Lift Application," \$110,600 Dec. 1, 1996 Nov. 30, 1998.
- AFOSR, \$181,500, IPA, Program Manager, Turbulence and Internal Flows," Sept. 1, 1996 Aug. 31, 1999.
- NSF, "Control of Separated Flows," \$26,000/2 yrs, International Exchange program with KAIST (South Korea).

- NASA/Dryden, "Instrumentation Development for Multipoint Measurements," \$500,000, Aug. 1991 July 1996 (Subcontract to W. Saric, ASU).
- NASA/Dryden, "Interactive Aeronautical Lab of the Future," \$50,000, Aug. 1995 July 1996.
- NASA/Langley, "Jet Mixing Enhancement by Feedback Control," \$200,000, March 1995 June 1998.
- NASA/Dryden, "Examination of Hot Film Response," \$88,000, Sept. 1, 1995 August 31, 1999.
- NASA/Langley, "Examination of a 2 Step 3D Experiment," \$88,000, July 1, 1995 June 31, 1999.
- NASA/Langley, "Theoretical and Experimental Studies in Aerospace Sciences," \$96,000, Jan. 1993 Jan. 1996.
- NASA/Langley, "IPA for Mark Glauser," \$50,000, June 1, 1994 May 31, 1995. (Funds For Sabbatical Leave at NASA Langley).
- Cornell/NASA Langley, "Jet Mixing Enhancement by Feedback Control," \$53,000, September 14, 1993 September 13, 1994.
- NSF, IUTAM Symposium Entitled: "Eddy Structure Identification in Free Turbulent Shear Flows, Travel Grant," \$7,500, May 1992 June 1993.
- NASA/Lewis, "Employing Flying Hot-Wires to Study Experimentally and Theoretically the Flow in an Axisymmetric Sudden Expansion," \$66,000, July 1991 June 1994.
- NASA/ASEE Summer Faculty Fellow, NASA Langley 1991, \$10,000.
- NASA/ASEE Summer Faculty Fellow, NASA Langley 1992, \$10,000.
- Dantec, 1990, An Upgrade of Clarkson's LDA System to a Particle Dynamics Analyzer, \$22,000.
- NSF, CNRS International Program (with CEAT in Poitiers, France) (1991) "An Examination of Turbulent Shear Layers," \$14,000/2 yrs.
- Pratt and Whitney/UTRC 1989, "The Role of Flow Unsteadiness on Lobe Mixer Performance," \$50,000(PI, W. Eckerle, Co-PI, M. Glauser).
- Research Initiation Grant (NSF) 1988, \$70,000, Title of Proposal, "An Investigation of the Turbulent Flow in the Suddenly Expanding Pipe Via POD".

NSF Undergraduate Research Experience. Increase of \$8,000 for the above grant.

ALCOA New Faculty Grant 1987, \$5,000.

THESES DIRECTED

- Ph.D.: X. Zheng, Thesis topic: A Low Dimensional Description of the Axisymmetric Jet Mixing Layer, August 1991.
- Ph.D.: L. Ukeiley, Thesis topic: Spatial and Temporal Dynamics of Coherent Structures in a Plane Mixing Layer, Sept. 1995. (Tenured Associate Professor at the University of Florida in Mechanical and Aerospace Engineering)
- Ph.D.: D. Cole, Thesis topic: Employing Flying Hot Wires to Study Experimentally and Theoretically the Flow in an Axisymmetric Sudden Expansion, May 1996. (Contractor at NASA Langley)
- Ph.D.: K. Chapman, Thesis topic: Application of Multi-point Techniques to Swept Wing Flow, December 1996. (Vice President for Research and Development, Fender Guitar)
- Ph.D.: S. Stokes, Thesis topic: Single and Multi-Point Measurement Techniques used in the Study of Separated Flows, May 1999. (ITT Space Systems Division)
- Ph.D.: E. Eaton, Thesis topic: An Examination of the Azimuthal Variation Using Multi-Point Measurements in the Axi-Symmetric Sudden Expansion, August 1999. (Applied Research, Lennox International)
- Ph.D.: J. Taylor, Control of Unsteady Flow Separation, July 2001. (Adjunct Professor, Clarkson University)
- Ph.D.: R. Schmit, Examining Flow-Induced Vibrations by Low Dimensional Modeling Utilizing Particle Image Velocimetry and Accelerometers, Dec 2002. (Research Scientist, Air Force Research Labs, Dayton, Ohio)
- Ph.D.: Charles Tinney, Low Dimensional Techniques for Sound Source Identification in High Speed Jets, Feb 2005. (Assistant Professor, Department of Aerospace Engineering and Mechanics, University of Texas at Austin)
- Ph.D.: David Marr, Velocity Measurements in the Breathing Zone of a Moving Thermal Manikin Within the Indoor Environment, May 2007. (Research Engineer, Carrier Corp)
- Ph.D.: Jeremy Pinier, Low-Dimensional Techniques for Active Control of High-Speed Jet Aero-acoustics, Aug 2007. (Research Scientist, Civil Servant, NASA Langley)
- Ph.D.: Julie Ausseur, Application of Low-Dimensional Techniques for Closed-Loop Control of Turbulent Flows, Sept 2007. (Research Engineer, Total Energy)
- Ph.D.: Andre Hall, An Experimental Investigation of Low-Dimensional Techniques for Large Scale Noise Source Characterization in a Heated Jet, May 2008. (Research Scientist, Pratt and Whitney)
- Ph.D.: Marlyn Andino, Flow control for Aero-Optic Applications, December 2009 (Research Scientist, Civil Servant, NASA Langley).
- Ph.D: Ryan Wallace, Control of turbulent flow over an articulating turret for reduction of adverse aero-optic effects, February 2011 (currently doing post doc at Cal Tech).
- Ph.D: Kerwin Low, Towards Closed-loop Control of a High-Speed Jet for Noise

- Reduction, May 2012 (post doc, Poitiers France, 6/1/2012-7/31/2012, Pratt and Whitney, August 2012).
- Ph.D: Patrick Shea, Experimental Investigation of an Actively Controlled Three-Dimensional Turret Wake, May 2012 (Research Assistant Professor, Syracuse University, 6/1/2012 5/31/2014)
- Ph.D: Guannan Wang, Application of Flow Control to Wind Turbine Blades, May 2013 (Expected)
- Ph.D: Zachery Berger, Flow control of transonic jets for noise suppression, May 2014 (Expected)
- Ph.D: Chris Ruscher (J. Dannenhoffer, advisor, M. Glauser, co-advisor), Turbulent Combustion and Noise, May 2014 (expected).
- MS: Zhe Bai, Application of Compressive Sensing to Air Foil PIV data, May 2013 (expected).
- MS: Matthew Berry, Flow control for jet noise reduction, May 2014 (expected).
- MS: Jakub Walczak, Baseline Flow over wind turbine blade model, Dec 2011.
- MS: Zachery Berger, POD Analysis of Disc Wake, May 2011
- MS: Chris Ruscher (Joint with J. Dannenhoffer), Design and Simulation of Ejector for AFRL Afterburner Rig, May 2011.
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- (Invited) Glauser, M.N., Young, M.J., Higuchi, H., Tinney, C. and Carlson, H., ``POD Based Experimental Flow Control on a NACA-4412 Airfoil', 42nd AIAA Aerospace Sciences Meeting and Exhibit, 5-8 January, Reno, Nevada, AIAA-2004-0574.
- Carlson, H., Glauser, M. and Roveda, R., ``Models for Controlling Airfoil Lift and Drag'', 42nd AIAA Aerospace Sciences Meeting and Exhibit, 5-8 January, Reno, Nevada, AIAA-2004-0579.
- Tinney, C., Glauser, M., Coughlin, T. and Ukeiley, L., 'Designing an Anechoic Chamber for the Experimental Study of High Speed Heated Jets', 42nd AIAA Aerospaces Sciences Meeting and Exhibit, 5-8 January, Reno, Nevada, AIAA-2004-0010.
- Schmit, R., Glauser, M., ''Improvements in Low Dimensional Tools for Flow-Structure Interaction Problems: Using Global POD'', 42nd AIAA Aerospace Sciences Meeting and Exhibit, 5-8 January, Reno, Nevada, AIAA-2004-0889.
- Khan, T. A., H. Higuchi, D. R. Marr, M. N. Glauser (2004). "Unsteady Flow Measurements of Human Micro Environment Using Time Resolved Particle Image

- Velocimetry" Proceedings of 2004 Syracuse Symposium on Environmental and Energy Systems, Syracuse, NY, 25-26 October 2004.
- Khan, T.A., H. Higuchi, D.R. Marr, M.N. Glauser (2004), "Unsteady Flow Measurements of Human Micro Environment Using Time Resolved Particle Image Velocimetry", <u>Proceedings of ROOMVENT 2004</u>, 9th International Conference on Air Distribution in Rooms, Coimbra, Portugal, September 5 8.
- Marr, D.R., T. Khan, M. Glauser, H. Higuchi (2003), "The Structure of a Velocity Field Around a Breathing Thermal Manikin- Proper Orthogonal Decomposition (POD)", Proceedings of 2003 Third International Symposium on Advanced Fluid Information, New York, NY November 21-22.
- Marr, D.R., T. Khan, M. Glauser, H. Higuchi (2003), "Velocity Measurements in the Breathing Zone of a Thermal Breathing Manikin", Proceedings of 2003 Syracuse Symposium on Environmental and Energy Systems, Syracuse, NY, 27-28 October.
- Khan, T.A., D.R. Marr, H. Higuchi, M.N. Glauser (2003), "Measurement of Unsteady Flow Velocities of Human Coughing Using Time Resolved Particle Image Velocimetry," Proceedings of 2003 Third International Symposium on Advanced Fluid Information, New York, NY November 21-22.
- Marr, D.R., Higuchi, H., Glauser, M.N. and Zhang, J., "Measurements of Airflows Around a Manikin in a Ventilated Space Using Multiple Particle Image Velocimetry (PIV) Techniques", Indoor Air Quality Problems and Engineering Solutions, an international symposium cosponsored by the Air and Waste Management Association and the U.S. EPA's Office of Research and Development, July 21-23, 2003, in Research Triangle Park, NC.
- Young, M.J., Glauser, M.N. and Taylor, J.A., ``Towards Sensing and Control of Separation in Subsonic Flows'', 4th ASME/JSME Joint Fluids Engineering Conference, July 6th 10th, 2003, Honolulu, Hawaii, ASME FEDSM2003-45586.
- Schmit, R.F., Glauser, M.N. and Gorton, S.A., "Low-Dimensional Tools for Flow-Structure Interaction Problems: Application to Micro-Air Vehicles", 41st AIAA Aerospace Sciences Meeting and Exhibit, 4 9 January 2003, Reno, Nevada, AIAA 2003-0626.
- Tinney, C.E., Eaton, E. and Glauser, M.N., "Multi-point Measurements in an Axisymmetric Sudden Expansion", Engineering Turbulence Modelling and Experiments 5 (Eds. W. Rodi and N. Fueyo), pp. 485 494. Proceedings of the 5th International Symposium on Engineering Turbulence Modelling and Measurements, Mallorca, Spain, 16-18 September, 2002.
- (Keynote) Taylor, J.A. and Glauser, M.N., "Towards Practical Flow Sensing and Control via POD and LSE Based Low-Dimensional Tools," 2002 ASME Fluids

- Engineering Division Summer Meeting, Montreal, ASME Paper FEDSM2002-31416.
- (Keynote) Bonnet, J.P., Delville, J. and Glauser, M.N., ``Coherent Structures in Turbulent Shear Flows: The Confluence of Experimental and Numerical Approaches " 2002 ASME Fluids Engineering Division Summer Meeting, Montreal, ASME Paper FEDSM2002-31412.
- Tinney, C.E., Taylor, J.A., Eaton, E. and Glauser, M.N., "Low-Dimensional Descriptions of Separated Flows," Advances in Turbulence IX, (Edited by I.P. Castro, P.E. Hancock and T.G. Thomas), CIMNE Barcelona, pp. 627 631. Proceedings of the 9th European Turbulence Conference July 2nd July 5th, 2002, Southhampton, UK.
- Taylor, J., Ukeiley, L. and Glauser, M., "A Low-Dimensional Description of the Compressible Axisymmetric Shear Layer," 39th AIAA Aerospace Sciences Meeting and Exhibit, 8 11 January 2001, Reno, Nevada, AIAA –2001-0292.
- Schmit, R., Glauser, M. and Ahmadi, G., `` Using POD to Examine the Unsteady Wake of an Aeroelastic Wind Energy Converter," 39th AIAA Aerospace Sciences Meeting and Exhibit, 8 11 January 2001, Reno, Nevada, AIAA –2001-0856.
- (Invited) Glauser, M., Eaton, E., Taylor, J., Cole, D., Ukeiley, L., Citriniti, J., George, W.K. and Stokes, S., "Low-Dimensional Descriptions of Turbulent Flows: Experiment and Modeling," 30th AIAA Fluid Dynamics Conference, 28 June 1 July, 1999, Norfolk, VA, AIAA 99-3699.
- Cole, D., Glauser, M., Yao, C.S. and Paschal, K., "Including Time Dependency in Particle Image Velocimetry Measurements using Linear Stochastic Estimation", 30th AIAA Fluid Dynamics Conference, 28 June 1 July, 1999, Norfolk, VA, AIAA 99-3595.
- Stokes, S., and Glauser, M., "Multi-Point Measurement Techniques Used in the Study of Separated Flows," 30th AIAA Fluid Dynamics Conference, 28 June 1 July, 1999, Norfolk, VA, AIAA 99-3518.
- (Invited) Glauser, M., "Role of Simulation in the Design of Next-Generation Engines for Military Aircraft," National Academy of Engineers, Frontiers in Engineering, Reports on Leading Edge Engineering Form the 1998 NAE Symposium on Frontiers of Engineering, pp 65-67.
- K. Chapman, M. Reibert, W. Saric and M. Glauser, "Boundary-Layer Transition Detection and Structure Identification through Surface Shear Stress Measurement," 36th Aerospace Sciences Meeting & Exhibit, Reno, NV, AIAA 98-0782 (January 12-15, 1998).
- (Invited) J.P. Bonnet, J. Delville and M.N. Glauser, "Large Scale Structures in Free Turbulent Shear Flows," 28th AIAA Fluid Dynamics Conference 4th AIAA Shear Flow Control Conference, Snowmass Village, CO, AIAA 97-2116 (June 29 July 2, 1997).

- Ukeiley, L.S. and Glauser, M.N. (1997), Multi-point Measurements and Low-Dimensional Models: Tools for the Characterization and Control of Turbulent Flows (Invited Paper) Proceedings IUTAM Symposium on "Simulation and Identification of Organized Structures in Flows (Eds. Sorensen et al.) Kluwer Academic Publishers.
- Chapman, K.L., Glauser, M., Reibert, M.S., Saric, W.S. (1996), "Proper Orthogonal Decomposition Applied to Boundary-Layer Transition on a Swept Wing," in Transitional Boundary Layers, in Aeronautics (Eds. Rawm Henkes and J.L. Van Ingen) pp. 165-173, North Holland Press.
- Berkooz, G., Corke, T., Glauser, M.N., Psiaki, M. & Fischer, M., "Design for control of flow instabilities: first principles and an application," Proc. Sensing, Actuation, and Control in Aeropropulsion, SPIE v. 2494, pp. 70-86 (1995).
- Ukeiley, L.S., Cole, D.R. and Glauser, M. (1993), "An Examination of the Axisymmetric Jet Mixing Layer Using Coherent Structure Detection Techniques," In Eddy Structure Identification in Free Turbulent Shear Flows, Kluwer Academic Publishers (editors, J.P. Bonnet and M.N. Glauser), pp. 325-336.
- Glauser, M. and Gatski, T.B. (1993), "Near-Wall Reconstruction of Higher-Order Moments and Length Scales Using the POD," In Eddy Structure Identification in Free Turbulent Shear Flows, Kluwer Academic Publishers (editors, J.P. Bonnet and M.N. Glauser), pp. 239-249.
- Sullivan, P. and Glauser, M.N. (1990), "LDA Measurements in a Sudden Expansion," Engineering Turbulence Modeling and Experiments, Editors: Rodi and Ganic, Elsevier Science Publishing Co., Inc., 727-737.
- George, W.K. and Glauser, M.N. (1991), "Flow Structure Identification From Multi-Point Measurements. Experimental Heat Transfer, Fluid Mechanics and Thermodynamic, Elsevier (Eds. Ketter, Shah and Ganic), pp. 92-106.
- Bonnet, J.P., Delville, J. And Glauser, M.N. (1997) (Invited), "Large Scale Structures in Free Shear Flow" AIAA Paper No. 97-2116.
- Stokes, S.D., Morrison, J., Glauser, M.N., Gatski, T.B. (1996), An Examination of a 3D Corner Step Experiment, Proceedings 3rd International Symposium on Engineering Turbulence Modelling and Measurements, Crete. Greece, May 1996.
- Chapman, K.L., Glauser, M., Reibert, M., Saric, W., "A Multi-Point Correlation Analysis of a Crossflow Dominated Boundary Layer," AIAA Paper No. 96-0186.
- Stokes, S.D., Morrison, J., Glauser, M.N., Gatski, T.B., "An Examination of a 2 Step 3D Experiment," Tenth Symposium on Turbulent Shear Flows, Penn State, August 1995, Volume 1, pp. 25-30.

Chapman, K.L., Glauser, M.N., Dagenhart, J.R. and Saric, W.S., "Application of Multi-Point Correlation Techniques to Aerodynamic Flows," 25th AIAA Fluid Dynamics Conference, Colorado Springs, CO, June 20-23, 1994, paper # AIAA-94-2279 (Invited).

Glauser, M.N., Cole, D.R., Ukeiley, L.S., Bonnet, J.P. And Delville, J., "Stochastic Estimation and Proper Orthogonal Decomposition: Complementary Techniques for Identifying Structure, Proceedings Ninth Symposium on Turbulent Shear Flows, Kyoto, Japan, 1993, pp. 16-2-1 - 16-2-6.

Ukeiley, L., Varghese, M., Glauser, M. and Valentine, D.T., "An Examination of Coherent Structures in a Lobed Mixing Using Multifractal Measures in Conjunction with the Proper Orthogonal Decomposition," AIAA Paper No. 91-0521.

Ukeiley, L., Wick, D. and Glauser, M. (1991), "Coherent Structure Identification in Lobed Mixer," ASME Paper Number 91-GT-307.

Ukeiley, L., Glauser, M. and Wick, D., "A One-dimensional Proper Orthogonal Decomposition of the Downstream Flowfield of a Lobed Mixer," Proceedings Eighth Symposium on Turbulent Shear Flows,, Technical University of Munich, Sept. 9-11, 1991, pp. 25-2-1 - 25-2-6.

Ukeiley, L., Wick, D. and Glauser, M.N. (1990), "A Novel Hot-wire Rake Design," ASME FED-Vol. 97, pp.87-92.

Zheng, X. and Glauser, M.N. (1990), "A Low Dimensional Description of the Axisymmetric Jet Mixing Layer," ASME Computer in Engineering, 2, 121-127.

Zheng, X., Glauser, M.N. and Doering, C., "A Dynamical Systems Model for the Axisymmetric Jet Mixing Layer," Proceedings 10th Australian Fluid Mechanics Conference, Dec. 11-15, 1989, pp. 3.9-3.12.

Glauser, M.N. and George, W.K., "An Orthogonal Decomposition of the Axisymmetric Jet Mixing Layer Utilizing Cross-Wire Velocity Measurements," Proceedings Sixth Symposium on Turbulent Shear Flows, Toulouse, France, September 7-9, 1987, pp. 10.1.1-10.1.6.

Glauser, M.N., Leib, S.J. and George, W.K. (1985), "Coherent Structures in the Axisymmetric Turbulent Jet Mixing Layer," Proceedings Fifth Symposium on Turbulent Shear Flows, Cornell University, Ithaca, N.Y.

Leib, S.J., Glauser, M.N. and George, W.K., "An Application of Lumley's Orthogonal Decomposition to the Axisymmetric Turbulent Jet Mixing Layer," Proceedings 9th Rolla Symposium, 1984.

INVITED SEMINARS AND PRESENTATIONS (~100):

- "Insight into Swept Wing Boundary-Layer Transition and Turbulent Flow Physics from Multi-Point Measurements", AIAA Paper 2011-3076, 41st AIAA Fluid Dynamics Conference Exhibit, 27-30 June 2011, Honolulu Hawaii.
- "Preliminary Investigation of the Active Flow Control Benefits on Wind Turbine Blades, AIAA Paper 2011-3611, 6th AIAA Theoretical Fluid Mechanics Conference, 27-30 June 2011, Honolulu Hawaii.
 - "Acoustic Wind Tunnel Facility at Syracuse University", NSF Workshop on Wind Energy and Turbulence, Universidad del Turabo, Caguas, Puerto Rico, February 24-26, 2011.
- "Closed-Loop Control of Separated Turbulent Flows with Dynamically Articulating Geometries", GDR-IFFC2 Conference, Dec 6, 2010, University of Poitiers, Poitiers France.
- "Closed-Loop Control of Turbulent Flows", Department of Mechanical Engineering, Johns Hopkins University, October 2010.
- "Closed-Loop Control of Turbulent Flows", Department of Aerospace Engineering, University of Toronto, March 24th, 2010.
- "Closed-Loop Control of Turbulent Flows", Presented at the Special Symposium in Celebration of the Distinguished Career of Professor Roger E.A. Arndt, Nov 20th, 2009, Saint Anthony Falls Lab, Department of Civil Engineering, University of Minnesota
- "Great Lakes Sustainable Energy Consortium (GLSEC)", BALANCE Seminar, York University, Toronto Ontario, September 24-25, 2009.
- "Closed-Loop Control of Turbulent Flows", Department of Aerospace Engineering, Texas A &M University, College Station Texas, January 29, 2009.
- "Closed-Loop Control of Turbulent Flows", Graduate Aeronautical Laboratories Cal Tech (GALCIT), Pasadena, CA, November 21st, 2008.
- "Closed-Loop Control of Turbulent Flows", Department of Mechanical and Aerospace Engineering, Seoul National University, Seoul, South Korea, November 13th, 2008.
- "Closed-Loop Control of Turbulent Flows", Department of Mechanical Engineering, Korean Advanced Institute for Science and Technology (KAIST), Taejeon, South Korea, November 12th, 2008.
- "Closed-Loop Control of Turbulent Flows", Department of Mechanical, Aerospace and Nuclear Engineering, RPI, Troy, NY, November 5th, 2008.

- "Controlling Turbulent Flows", Department of Physics, Syracuse University, Syracuse, NY, October 2nd, 2008.
- "Feedback flow control: towards practical applications" 4th AIAA Flow Control Conference, June 23-26th 2008, Seattle, Washington, Invited Oral Presentation.
- "Feedback flow control: towards practical applications", Department of Physics, City College of New York, NYC, March 19th, 2008.
- "Feedback flow control: towards practical applications", Aerospace and Mechanical Engineering Departmental Seminar, University of Arizona, Tucson, Arizona, October 25th, 2007.
- "Controlling Turbulent Flows", Mechanical and Aeronautical Engineering Seminar, Clarkson University, Potsdam, NY, March 2, 2007.
- "Controlling Turbulent Flows", AFOSR Workshop on Turbulence Control and Implications, February 22, 2007, Dayton, Ohio
- "Feedback flow control: towards practical applications", Mechanical Engineering Departmental Seminar, University of Minnesota, Twin Cities, Dec 13, 2006.
- "Turbulence, can we control it?", Café-Scientific Seminar, Ambrosia Restaurant, Syracuse New York, Nov 7, 2006.
- (Keynote) 'Progress in Feedback Flow Control for Practical Applications' IUTAM Symposium, Flow Control and MEMS, 19 22 September, 2006, Imperial College London.
- "Low-Dimensional Techniques for Feedback Flow Control Measurements" Invited presentation in Session 1-AMT/GT-1/FC-1 at the 25th AIAA AMT/GT and AIAA 3rd Flow Control Conference, AIAA, 5-8 June 2006, Hyatt Regency, San Francisco
- "Experiment based Reduced-Order Modeling for Feedback Flow Control: Application to Flow Separation and Jet Aeroacoustics", Invited talk for Minisymposium: Reduced-Order Modeling for Feedback Flow Control, 58th Annual meeting of the Division of Fluid Dynamics of the APS, Nov 20 22, 2005, Chicago, Illinois. Abstract in Bulletin of the APS, Vol. 50, No. 9, pp 102.
- ''Closed-Loop Control of Separated Flows'', 1^{st} International Closed-Loop Flow Control Workshop'', July 18-19, 2005, Jackson Hole, Wyoming (Sponsored by AFOSR).
- "Application of Low-Dimensional Methods to Turbulent Flows: From High Speed Jets to Coughing and Breathing and Beyond", Seminar at CEAT/LEA, ENSMA, University of Poitiers, Poitiers, France, February 23, 2005.

- "Feedback Flow Control on a NACA 4412 Airfoil", Seminar at NASA Langley Research Center, Hampton, VA, January 21, 2005.
- "Closed-Loop Feedback Control of the Turbulent Flow over a Wing", Seminar, Department of Physics, Clarkson University, September 24, 2004.
- "Closed-Loop Feedback Control of the Turbulent Flow over a Wing", Seminar, Department of Mechanical, Aerospace and Materials Engineering, Illinois Institute of Technology, September 22, 2004.
- "Feedback Control of Separated Flows", 2nd AIAA Flow Conference, Portland, Oregon, 28 June 1 July 2004.
- "POD Based Experimental Flow Control on a NACA-4412 Airfoil", 42nd AIAA Aerospace Sciences Meeting and Exhibit, 5-8 January, Reno, Nevada.
- "Low-Dimensional Tools for Understanding and Controlling Turbulent Flows," Department of Physics Seminar, Syracuse University, February 28, 2003.
- (Keynote) "Towards Practical Flow Sensing and Control via POD and LSE Based Low-Dimensional Tools," 2002 ASME Fluids Engineering Division Summer Meeting, Montreal, Quebec, Canada.
- "Towards Practical Flow Sensing and Control via POD and LSE Based Low-Dimensional Tools," Workshop on the POD, Turbulence Research Laboratory, Chalmers University of Technology, Gothenburg, Sweden, June 2002.
- "Low-Dimensional Methods for Characterization and Control of Turbulent Flows," Department of Chemical Engineering, Syracuse University, March 8, 2002.
- "Turbulence Research", AE 200, Clarkson University Sophomore Research Seminar, Nov 3, 2000.
- "Research Center Development IMPRINT as an Example", Syracuse University, Nov 1, 2000.
- "Research Center Development IMPRINT as an Example", Presented to Academic Sub-Committee of Clarkson's Board of Trustees, October 13, 2000.
- "Low-Dimensional Descriptions of Turbulent Flows: Experiment and Modeling," Department of Mechanical Engineering, Aeronautical Engineering and Mechanics Seminar, Rensselaer Polytechnic Institute, Troy, New York, January 21, 2000.
- "Low-Dimensional Descriptions of Turbulent Flows: Experiment and Modeling," Presented to the Department of Mechanical Engineering, KAIST, Taejon, Korea, July,

"Low-Dimensional Descriptions of Turbulent Flows: Experiment and Modeling," 30th AIAA Fluid Dynamics Conference, 28 June – 1 July, 1999, Norfolk, VA, AIAA 99-3699.

"IMPRINT: Proposal for a UB/Cornell/Clarkson/Princeton Center for Industrial Turbulence," Presented to the Engineering Dean's Council, University at Buffalo, SUNY, Buffalo, NY, Spring, 1999.

"Turbulence and Internal Flows Program at the AFOSR," Department of Mechanical Engineering, The City College of CUNY, December 28, 1998.

"Low Dimensional Approaches for the Characterization and Control of Turbulent Flows," Department of Mechanical Engineering, The City College of CUNY, December 28, 1998.

"IMPRINT: Proposal for a UB/Cornell/Clarkson/Princeton Center for Industrial Turbulence," Katharine Cornell Theatre, Ellicott Complex, University of Buffalo, North Campus, November 20, 1998.

"Role of Simulation in the Design of Next-Generation Engines for Military Aircraft," National Academy of Engineers, Frontiers in Engineering, University of California, Irvine Sept. 1998.

Program Overview for AFOSR of "Turbulence and Internal Flows," National Research Council, June 1998.

"Low Dimensional Approaches for Flow Characterization and Control; Experiments and Modelling." UTRC Flow Control Workshop, Hartford, Connecticut, Nov. 11, 1998.

Briefing on the AFOSR "Turbulence and Internal Flows" Program to the Scientific Advisory Board (SAB) of the Air Force, Wright Paterson AFB, Dec. 1, 1998.

"Time Dependent Velocity Measurements Via Linear Stochastic Estimation (LSE)," Arizona State University, Tempe AZ, March 8, 1998.

"Turbulence and Internal Flows at AFOSR," TAM Dept., University of Illinois at Urbana-Champaign, February 19, 1998.

"Multi-Point Measurements and Low-Dimensional Models: Tools for the Characterization and Control of Turbulent Flows," TAM Dept., University of Illinois at Urbana-Champaign, February 19, 1998.

"Turbulence and Internal Flows at AFOSR," Polytechnic University, NY, NY, November 4, 1997.

"Turbulence and Internal Flows at AFOSR," New Jersey Institute of Technology, Newark, NJ, November 5, 1997.

"Multi-Point Measurements and Low-Dimensional Models: Tools for the Characterization and Control of Turbulent Flows," Gas Turbine Laboratory Seminar, Dept. of Aeronautics and Astronautics, MIT, Cambridge, Mass. October 7, 1997.

"Multi-Point Measurements and Low-Dimensional Models: Tools for the Characterization and Control of Turbulent Flows," United Technologies Research Center, East Hartford, CT, October 8, 1997.

"Large Scale Structures in Free Shear Flow," with J.P. Bonnet and J. Delville, 28th AIAA Fluid Dynamics Conference, Silvertree Hotel Snowmass Village, CO, June 29 - July 2, 1997.

Invited Panel Member: Future Directions in Fluid Dynamics - The Research Managers Perspective, 28th AIAA Fluid Dynamics Conference, Silvertree Hotel, Snowmass Village, CO, June 29 - July 2, 1997.

Program Overview for AFOSR of "Turbulence and Internal Flows" National Academy of Sciences National Research Council Panel Review, June 1997.

Multi-Point Measurements and Low-Dimensional Models: Tools for the Characterization and Control of Turbulent Flows. IUTAM Symposium on Simulation and Identification of Organized Structures in Flows, Tech. University of Denmark, Lyngby, Denmark, May 24-29, 1997.

Air Force Office of Scientific Research, a Program Managers Perspective, Clarkson University, May 2, 1997.

Utilizing POD based Low-dimensional Models for Flow Characterization and Control. Dept. Of Aerospace and Mechanical Engineering, Notre Dame University, 18 March 1997.

"Low Dimensional Turbulence Models and Their Use in Flow Control and Characterization," Dept. Of Mechanical Engineering, University of Maryland, College Park, March 11, 1997.

"Fluid Mechanics Research at the Air Force Office of Scientific Research," Dept. Of Mechanical and Aero. Engr., Clarkson University, February 28, 1997.

Briefing on AFOSR Turbulence and Internal Flows: Program Vehicles and Power Panel Review, to the 1996 Air Force Scientific Advisory Board, Wright Patterson Air Force Base, 15 January 1997.

Briefing on AFOSR Turbulence and Internal Flows: Ordinance and Propulsion Panel

- Review, to the 1996 Air Force Scientific Advisory Board, Wright Paterson Air Force Base, 14 January 1997.
- "Low-Dimensional Models and Their Use in Flow Control," ASME International Mechanical Engineering Congress and Exposition, Atlanta, GA, November 20, 1996.
- "Utilizing Multipoint Techniques for Flow Characterization and Control," VPI and State University, Blacksburg, VA, November 13, 1996.
- Program Overview for AFOSR of "Turbulence and Internal Flows" National Academy of Sciences National Research Council Panel Review, October 1996.
- "Coherent Structures: Past, Present and Future," with J.P. Bonnet and J. Lewalle, 6th European Turbulence Conference, Lausane, Switzerland, 2-5 July 1996.
- "Multipoint Techniques Applied to Swept Wing Flow," with Keith Chapman, KAIST, Taejeon, South Korea, July 1996.
- "An Examination of a 3D Corner Step Flow," with Sheldon Stokes, KAIST, Taejeon, South Korea, July 1996.
- "Utilizing Multipoine Techniques for a Flow Characterization and Control," KAIST, Taejeon, South Korea, July 1996.
- "Application of the POD and LSE to the Axisymmetric Sudden Expansion," with Dr. Dan Cole, Taejeon, South Korea, July 1996.
- "Utilizing Multipoint Techniques for Flow Characterization and Control," Air Force Office of Scientific Research, May 2, 1996.
- "Utilizing Low Dimensional Models for Guiding Control Experiments," Invited presentation at Institut De Mecanique Des Fluides De Toulouse, Toulouse, France, July 13, 1995.
- "Examination of a 2 step 3D experiment," Invited presentation at CEAT/LEA, Universite de Poitiers, Poitiers, France, June 30, 1995.
- "Utilizing Low Dimensional Models for Guiding Control Experiments," Invited presentation at Institut fur Aerodynamik und Gasdynamik, Universitat Stuttgart, Stuttgart, Germany, June 19, 1995.
- "Utilizing Low Dimensional Models for Guiding Control Experiments," Invited presentation at CEAT/LEA, Universite de Poitiers, Poitiers, France, June 15, 1995.
- "Application of Multipoint Correlation Techniques to Aerodynamic Flow," Invited Talk at AIAA Fluid Dynamics Meeting, June 1994. Colorado Springs, CO.

- "On Using Low Dimensional Dynamical Systems to Guide Control Experiments," Invited Talk at 12th U.S. National Congress of Applied Mechanics, June 1994, Seattle, Washington.
- "A Dynamical System for the Jet Mixing Layer," Invited presentation at KAIST, Taejeon South Korea, August 1993.
- "A Dynamical System for the Jet Mixing Layer," Invited presentation at Yeung Nam University DaeGoo South Korea, August 1993.
- "Structural Based Turbulence Modeling," Invited talk at the NASA-ASEE Summer Faculty Presentations, NASA/Langley, August 1992.
- "An Examination of Turbulent Shear Layers," Invited presentation at CEAT and Universite De Poitiers, Poitiers, France, June 1991.
- "Proper Orthogonal Decomposition Based Turbulence Modeling," Invited talk at the NASA-ASEE Summer Faculty Fellowship Presentations, NASA/Langley Research Center, August 8, 1991.
- "Proper Orthogonal Decomposition Based Turbulence Modeling," Invited talk at the ICASE/LARC Transition and Turbulence Workshop, August 1991, NASA/Langley Research Center.
- "Investigation of the Separated Flow in an Axisymmetric Sudden Expansion Using Flying Hot Wires," Invited talk at the ICASE/LARC Workshop on Separated Flows, July 1991.
- (Keynote paper) "Flow Structure Identification from Multi-point Measurements," Second World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Croatia Hotel, Dubrovnik, Yugoslavia, June 23-28, 1991.
- "An Examination of the Turbulent Axisymmetric Jet Mixing Layer Using Low Dimensional Models," Invited talk at The Benjamin Levich Institute, CCNY, December 4, 1990.
- "The Streamwise Evolution of Coherent Structures in the Axisymmetric Jet Mixing Layer," Proceedings, Professor John Lumley's 60th Birthday Symposium. Springer-Verlag, NASA Langley Research Center, November 12-13, 1990.
- "Application of a Pseudo Flow Visualization Technique to a Lobed Mixer Flow," United Technologies Research Center, East Hartford, CT, June 1990.
- "A Dynamical Systems Model for the Axisymmetric Jet Mixing Layer," Invited presentation at CEAT & Universite De Poitiers, Poitiers, France, September 1989.

- "Investigating the Role of Flow Unsteadiness on a Lobed Mixer," United Technologies Research Center, East Hartford, CT, April 1989.
- "The Dynamics of Organized Structures in the Axisymmetric Jet Mixing Layer," Invited presentation at the University of Cincinnati, June 16, 1989.
- "Applying the Proper Orthogonal Decomposition t Turbulent Flows with Emphasis on the Axisymmetric Jet," Invited presentation at Yale University, Department Mechanical Engineering, October 12, 1988.
- "Applying the Proper Orthogonal Decomposition to Turbulent Flows: Experimental Considerations," Invited talk at DARPA-URI Conference, Brown University, Yale University, June 13-15, 1988.
- "An Application of the Proper Orthogonal Decomposition to the Near Field Jet Shear Layer," Invited presentation at the City College of New York, July 1987.
- "An Orthogonal Decomposition of an Axisymmetric Jet Mixing Layer," Invited presentation at Cornell University, April 28, 1987 (Stability, Transition and Turbulence Seminars).
- "Application of Lumley's Orthogonal Decomposition to the Axisymmetric Turbulent Jet Mixing Layer," Invited presentation at Rutgers University, Spring 1987.
- "Using Orthogonal Decomposition to Find Coherent Structures in an Axisymmetric Turbulent Jet Mixing Layer," Invited presentation at Washington State University, Summer 1985.

CONTRIBUTED ABSTRACTS (APS) AND PRESENTATIONS (Glauser, Students & Colleagues, first author is generally the presenter, otherwise, boldface). Note: Contributed meeting presentations at conferences where reviewed abstracts (e.g., AIAA) or papers (e.g. ASME, European Turbulence Conference, etc.) are presented have been jointly listed here and also under Meeting Papers, Hardbound Volumes and Proceedings. This helps differentiate between contributed and invited papers/presentations at these meetings and also makes it clear that both a paper and presentation have been contributed. (\sim 170 presentations)

Shea, P. and Glauser, M., (2012), "Experimental Investigation of a Three-Dimensional Turret Wake with Active Flow Control", AIAA Paper 2012-0745, 50th AIAA Aerospace Sciences Meeting, 9-12 January 2012.

Low, K., Kostka, S., Berger, Z., Berry, M., Gogineni, S. and Glauser, M. (2011), "Active Control of Jet Noise Using High Resolution TRPIV Part 2: Velocity-Pressure-Acoustic Correlations", American Physical Society, 64th Annual Meeting: Division of Fluid Dynamics, 20-22 November 2011, Baltimore Maryland.

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