

RESUME

NAME: Michael Schulz

ADDRESS: Department of Physics
Missouri University of Science & Technology
1315 N. Pine St.
Rolla, MO 65409

DATE OF BIRTH: July 17, 1959

PLACE OF BIRTH: Bremerhaven, Germany

FAMILY STATUS: Married, one child

EDUCATION: March 1980, Vordiplom, Universität Heidelberg

July 1984, Diplom (Physics), Thesis: "K to K Charge Transfer in Collisions of Bare S Ions with Ar", Advisor: Prof. Dr. R. Schuch, Universität Heidelberg

October 1987, Ph.D. (Physics), Thesis: "Capture with Simultaneous Excitation Studied by Two Photon Coincidences for $S^{15+} \rightarrow H_2$ Collisions", Advisor: Prof. Dr. R. Schuch, Universität Heidelberg

LANGUAGES SPOKEN: German, English (fluently), Russian (advanced), French (basics only)

ACADEMIC EXPERIENCE: Nov. 1984 - Dec. 1987, Teaching Assistant, Physikalisches Institut of the Universität Heidelberg

Jan. 1988 - Oct. 1989, Research Associate, Oak Ridge National Laboratory, Oak Ridge, TN

Oct. 1989 - Aug. 1990, Research Associate, Physics Department, Kansas State University, Manhattan, KS

Aug. 1990 – August 1996, Assistant Professor, Department of Physics, University of Missouri-Rolla, Rolla, MO

Sep. 1996 – Aug. 2002, Associate Professor, Department of Physics, University of Missouri-Rolla, Rolla, MO

Sep. 2002 – Aug. 2021, Professor, Department of Physics, Missouri University of Science & Technology, Rolla, MO

Aug. 2003 – Aug. 2021, Director of Laboratory for Atomic, Molecular, and Optical Research (LAMOR) at Missouri University of Science & Technology, Rolla, MO

Jan. 2006 – Aug. 2021, Curators' Distinguished Professor of Physics, Department of Physics, Missouri University of Science & Technology, Rolla, MO

Sep. 2021 – present, Curators' Distinguished Professor of Physics emiratus, Department of Physics, Missouri University of Science & Technology, Rolla, MO

Sep. 2021 – present, Chancellors' Professor of Physics, Department of Physics, Missouri University of Science & Technology, Rolla, MO

GUEST POSITIONS:

Feb. 22 - May 22, 1987, Guest Scientist, Oak Ridge National Laboratory, Atomic Physics Group (Prof. S. Datz, Head)

Nov. 19 - Dec. 20, 1987, Guest Scientist, Physics Department Pontificius Universidade Catolica, Rio de Janeiro, Brazil

May 28 - June 27, 1996, Guest Scientist, Gesellschaft für Schwerionenforschung, Darmstadt

July 1, 1998 – July 15, 1999, Visiting Professor, Universität Freiburg

June 1, 2004 – July 15, 2005, Visiting Professor, Max-Planck Institut für Kernphysik Heidelberg

June 1, 2011 – August 15, 2012, Visiting Professor, Max-Planck Institut für Kernphysik Heidelberg

November 15, 2011 – August 15, 2012, Visiting Professor, Universität Frankfurt

PROFESSIONAL AFFILIATIONS:

American Physical Society (Fellow)

HONORS AND AWARDS:

University of Missouri-Rolla Faculty Excellence Award, 1993-94
Top 10% teaching commendation, 1994-95

University of Missouri-Rolla Faculty Excellence Award, 2001-02
University of Missouri-Rolla Faculty Excellence Award, 2002-03
Deutsche Forschungs-Gemeinschaft Mercator Award, 2003
University of Missouri-Rolla Faculty Excellence Award, 2003-04
Who's Who Among Executives and Professionals 2004/2005
"Honors Edition"
University of Missouri-Rolla Faculty Excellence Award, 2004-05
(not eligible after 2005 because of appointment to Curators'
Distinguished Professor)
Fellow of the American Physical Society, since 2004
Fulbright Scholarship, 2011
Extreme Matter Institute (EMMI) Visiting Professor (declined in
favor of Mercator Award), 2011
Deutsche Forschungs-Gemeinschaft Mercator Award, 2011
APS Outstanding Referee Award, 2013
Featured author in Journal of Physics +, August 14, 2015
Chinese Academy of Sciences President's International Fellowship
for Visiting Scientists (2016 - 2017)
Chinese Academy of Sciences President's International Fellowship
for Distinguished Scientists (2019)

**RESEARCH
ACTIVITIES:**

119 Invited talks at national and international meetings
49 Invited seminar talks
2 Books
188 publications (154 in refereed journals, 13 invited review
articles/book chapters, 18 in conference proceedings, 1
manuscript(s) accepted for publication in or submitted to refereed
journal, 1 invited review article/book chapter(s) accepted, 1 book
review)
235 contributions at meetings

**RESEARCH
FUNDING:**

\$4,611,151 in external, peer-reviewed funding (\$2,813,350 personal
%-contribution), \$ 49,345 in internal funding (sole PI)

**PAST AND CURRENT
RESEARCH
COLLABORATIONS:**

Oak Ridge National Laboratory
University of Frankfurt, Germany
Pontificia Universidad Catolica Rio de Janeiro, Brazil
Kansas State University
Gesellschaft für Schwerionenforschung Darmstadt, Germany
University of Freiburg, Germany
Max-Planck-Institut für Kernphysik Heidelberg, Germany
Tulane University
University of Cambridge, Great Britain
Universidad National del Sur, Bahia Blanca, Argentina
Technical University of Clausthal, Germany
Max-Planck-Institut für Physik Komplexer Systeme Dresden,

Germany
York University, Toronto, Canada
Old Dominion University, Norfolk, VA, USA
The Institute of Photonic Sciences, Castelldefels (Barcelona), Spain
Auburn University, Auburn, AL, USA
Max-Planck-Institut für Quantum-Optik München, Germany
Institute of Modern Physics of the Chinese Academy of Sciences,
Lanzhou, China
Centro Atómico Bariloche, Argentina
Babeş-Bolyai University Cluj-Napoca, Romania
Flinders University Perth, Australia

**GRADUATE STUDENTS
ADVISED:**

Dean M. Blankenship (Ph.D. 1992)
Samuel W. Bross (Ph.D., 1993)
Aron D. Gaus (Ph.D., 1994)
Joel A. Brand (Ph.D., 1994)
Win T. Htwe (Ph.D., 1995)
Liqun An (Ph.D., 2002)
Nataliya Maydanyuk (M.S. 2003)
Brian Tooke (M.S. 2006)
Jason Alexander (Ph.D. 2009)
Aaron Laforge (Ph.D. 2010)
Kisra Egodapitiya (Ph.D. 2011)
Sachin Sharma (Ph.D. 2014)
Thusitha Arthanayaka Mudiyansele (Ph.D. 2016)
Basu Ram Lamichhane (Ph.D. 2018)
Madhav Dhital (Ph.D. 2020)
Sujan Bastola (Ph.D. 2022)
Shruti Majumdar (Ph.D. Candidate)

**POST DOCTORAL
FELLOWS
SUPERVISED:**

Dr. Tibor Vajnai (1991-1994, deceased, last position Professor and
Vice President Kecskemet College, Kecskemet, Hungary)
Dr. Khaldoun Khayyat (1999-2001, present status unknown)
Dr. Ahmad Hasan (2001-2004, now Professor at the
University of the United Arab Emirates)
Dr. Oscar de Lucio Morales (2005-2007, now Associate Professor
at the Universidad Nacional Autónoma de México)

**PROFESSIONAL
SERVICES:**

Referee for: Nuclear Instruments and Methods B
Physical Review Letters
Physical Review A
Physical Review B
Journal of Physics B
Journal of Physics D
European Physics Letters
European Physics Journal D

International Journal of Modern Physics E
Nuclear Technology
Atoms
Springer Publishing
Physical Chemistry Chemical Physics
National Science Foundation
Deutsche Forschungsgemeinschaft
Department of Energy
Georgian National Science Foundation
Research Corporation

Reviewed 3 textbooks on Modern Physics, 1 textbook on calculus-based Introductory Physics, and 1 textbook on Nuclear and Particle Physics

Organizer of Midwestern Atomic Physics Conference 1992 in Rolla
DAMOP undergraduate research award selection committee (1998)

Co-Chairman of the International Symposium on “(e,2e), Double Photoionization and Related Topics” 2001 in Rolla

Co-Chairman of the “11th International Symposium on Polarization and Correlation in Electronic and Atomic Collisions” 2001 in Rolla

Member of the General Committee of the International Conference

of

Photonic, Electronic and Atomic Collisions (2003-2007)

Member of the Advisory Board for the Workshop on Fast Ion-Atom Collisions (2003-2004)

Member of the General Committee of the 56th Gaseous Electronics Conference (2003)

Session Chairman at the 33rd DAMOP meeting, Tucson, AZ (2004)

Session Chairman at the 10th Workshop on Fast Ion-Atom Collisions,

Debrecen, Hungary (2004)

Member of the Nominating Committee of the APS Topical Group on Few-Body Systems (2004-2005)

Session Chairman at the Spring Meeting of the German Physical Society, Berlin, Germany (2005)

Session Chairman at the International Symposium on “(e,2e), Double

Photoionization and Related Topics”, Buenos Aires, Argentina (2005)

Delegation member of Coalition for National Science Funding for congressional meeting on funding for basic research (2005)

District Advocate for the American Physical Society (2005-2006)

Member of the Executive Committee of the “Gaseous Electronics Conference” (2006-2008)

Member of the International Advisory Committee for the "International Symposium on (e,2e), Double

Photoionization and Related Topics" (since 2006)
Session Chairman at the 36th DAMOP meeting, Calgary, Canada
(2007)
Session Chairman at the 61st Gaseous Electronics Conference,
Dallas,
TX, USA (2008)
Co-Chairman of the "International Symposium on Ion-Atom
Collisions" Norfolk, VA (2009)
Campus Representative to the Missouri Association of Faculty
Senates (2008-2009)
Session Chairman at the International Symposium on (e,2e), Double
Photoionization and Related Topics, Lexington, KY (2009)
National Science Foundation AMO Review Panelist (2011)
Member of the Executive Committee of the APS Topical Group on
Few-Body Systems (2012-2015)
Session Chairman at the International Symposium on "(e,2e),
Double
Photoionization and Related Topics", Hefei, China (2013)
Session Chairman at 67th Gaseous Electronics Conference, Raleigh,
NC, USA (2014)
Member of the Nominating Committee of the APS Topical Group
on
Few-Body Systems (2014)
Treasurer and Member of the Executive Committee of the Gaseous
Electronics Conference (2014-2018)
National Science Foundation Science and Technology Centers
Review Panelist (2015)
Session Chairman at the "4th CDAMOP" meeting, Delhi, India
(2015)
Session Chairman at the "International Workshop on the Photon and
fast Ion induced Processes in Atoms, Molecules and
Nanostructures", Debrecen, Hungary (2015)
Session Chairman "Fee-Body conference 21", Chicago, USA
(2015)
Session Chairman at the "International Seminar on (e,2e), Double
Photoionization and Related Topics", San Sebastian, Spain
(2015)
Session Chairman "68th Gaseous Electronics Conference",
Honolulu,
HI, USA (2015)
Member of the International Advisory Committee for the
"International Symposium on Ion-Atom Collisions" (since
2016)
Guest Editor of Special Issue of *Atoms* "Recent Advances in Ion-
Atom Scattering: Experiment, Theory and Applications"
(2018)

Session Chairman and Organizer “25th International Conference on the Application of Accelerators in Research and Industry”, Dallas, TX, USA (2018)
Member of the Experimentalists Network of the International Atomic Energy Agency, Vienna, Austria (since 2018)
Member Editorial Board *Atoms* (since 2019)
Session Chairman "International Symposium on Ion-Atom Collisions", Cluj-Napoca, Romania (2021)
Chairman of the “International Symposium on Ion-Atom Collisions”, Rolla, MO (2023)
Guest Editor of Special Issue of *Atoms* “Editorial Board Members Collection” (2023)

UNIVERSITY SYSTEM SERVICES:

Access to and Retention of Research Data Committee (1996)
Intercampus Faculty Council Representative (2008-2011)
Advisory Committee for the Presidential Award for University Citizenship (2013-2014)

CAMPUS SERVICES:

Doctoral Faculty (since 1990)
Faculty Mentor for Leadership & Success Program (2000)
Research Policy Committee (2001-2003)
Faculty Excellence Award Evaluation Committee (2005-2008)
Academic Council (2005-2006)
Faculty Conduct Committee (2005-2007)
Curriculum Committee (2005-2006)
Curators’ Professor Selection Committee (2006)
Parliamentarian of the Faculty Senate (2007-2008)
Rules, Procedure and Agenda Committee (2007-2011)
Grievance Hearing Panel (2007-2009)
President-Elect of the Faculty Senate (2008-2009)
Faculty Senate Department Representative (2008-2009)
Faculty Award Structure Committee (2008-2009)
Curators’ Professor Selection Committee (2009)
Faculty Research Award Committee (2009)
President of the Faculty Senate (2009-2010)
Curators’ Professor Selection Committee (2010-2013)
Past President of the Faculty Senate (2010-2011)
Chair of Rules, Procedure and Agenda Committee (2010-2011)
Intellectual Property Committee (2012-2016)
Faculty Research Award Committee (2014-2016)
Faculty Excellence Award Committee (2014-2016)
Tenure & Promotion Committee (2015-2017)
Department Representative on Graduate Council (2015-2017)
Chair of Sciences Area Tenure & Promotion Committee (2015-

2016)

Curators' Professor Selection Committee (2016)
Curators' Distinguished Professor Selection Committee (2017)
Member search committee for Assistant Dean of Operations
of the College of Engineering and Computing (2018)
Tenure & Promotion Policy Committee (2018-2020)
Faculty Senate Department Representative since 2019)
Curators' Distinguished Professor Selection Committee (2019)
Curators' Distinguished Professor Selection Committee (2020)
Curators' Distinguished Professor Selection Committee (2021)

COLLEGE SERVICES:
(College eliminated
between 2007 and 2014)
(2006)

College of Arts & Sciences Curriculum Committee (1993-1995,
1997-1999, and 2002-2004)
College of Arts & Sciences Agenda & Nominating Committee

College of Arts & Sciences Curators' Professor Review
Committee (2007)
College of Arts, Sciences, and Business Best-in-Class pilot research
program review panel member (2015)

**DEPARTMENT
SERVICES:**

Committee for teaching improvement in Physics 23 (1991-92)
Physics Undergraduate Curriculum Committee
(1992-2001 and
2003-2011) Chairman (1993-2001 and 2003-2011)
Physics Safety Committee (1992-93)
Physics Building Renovation Committee (1994-1996)
Physics Atomic & Molecular Search and Hiring Committee for
faculty position (1994)
Graduate Student Recruitment Committee (since 1997)
Physics Special Events Committee (1997-2002)
Teaching Assignment Committee (1997-2001)
Scheerer Prize Committee (1997)
Physics Graduate Student Admissions Committee, (since 1997)
Physics Condensed Matter Search and Hiring Committee for faculty
position (1998)
Physics Salary and Wage Committee, Chairman (2001)
Physics Salary and Wage Guidelines Committee, Chairman (2001)
Physics Tenure and Promotion Committee (since 2002)
Physics Salary and Wage Committee (2004)
Colloquium Chairman (2005-2006)
Physics Salary and Wage Committee (2006)
Qualifying Exam Committee (2006)
Physics Long-Range Planning Committee (since 2007)
Physics Space Committee (since 2007)
Physics Atomic & Molecular Search and Hiring Committee for
faculty position (2007-2008)

Physics Salary & Wage Committee (2008)
Physics Condensed Matter Physics Search and Hiring Committee
for
 faculty position (2009-2010)
Physics Senior Lab Technician Search and Hiring Committee
(2012)
Curriculum Revision Committee (since 2013)
Physics Salary & Wage Committee (2013)
Physics Atomic, Molecular, and Optical Physics Search and
 Hiring Committee for faculty position, Chair (2013-2014)
Faculty mentor to Dr. Daniel Fischer (2015-2020)
Physics Salary and Wage Committee (2015)
Physics Electronics Technician Search and Hiring Committee
(2016)
Scheerer Prize Committee, Chair (2016)
Physics Dept. Search Committee, Chair (2017)
Physics Astronomy Search and Hiring Committee for senior faculty
 Position, Chair (2017-2018)
Physics Salary & Wage Committee (2018)
Faculty mentor to Dr. An Thu Le (2019-2021)
Scheerer Prize Committee (2018)
Space Committee (2019)
Physics Salary & Wage Committee (2021)

**COMMUNITY
SERVICES:**

President of the Rolla Area Sister City Association (2002-2004)
Treasurer of the Phelps County Democratic Party (2009)
Juror Phelps County Court (2013)
Juror Phelps County Court (2019)