

James Gibbs McLean

Dept. of Physics and Astronomy
SUNY Geneseo
1 College Circle
Geneseo, NY 14454

(585) 245-5897
FAX (585) 245-5116
mclean@geneseo.edu
<http://www.geneseo.edu/~mclean/>

Notable Governance Products

- 2009: As chair of the Geneseo Faculty Affairs Committee, guided redesigned Personnel Evaluation Report Form to adoption, after multiple years of development.
- 2014: As Campus Governance Leader attending UFS plenaries, helped to write the first formal Guidelines for the “CGL Organization,” defining scope and procedures for the group that is now a formal sector of the UFS.
- 2017: As Geneseo Senate Chair, presided over a contentious reduction of Geneseo’s signature Humanities common core requirement. https://en.wikipedia.org/wiki/State_University_of_New_York_at_Geneseo
- 2017: As Geneseo Senate Chair, worked with campus president and provost to create a joint task force of the president and senate, which in spring 2021 is proposing a fully re-designed general education curriculum for our campus.
- 2018: As Past Presiding Officer at Geneseo, created a comprehensive wiki-based Faculty Governance web site, part of which is publicly accessible. <https://senate.geneseo.edu/>
- 2020: As member of the UFS Governance Committee, cooperatively authored a complete rewrite of the UFS Bylaws, Standing Rules, and Guidelines. <http://www.sunyufs.us/> >Bylaws link & Standing Rules link

Positions and Titles

Professional

Sc.B. physics, Brown University 1986
Teaching Assistant in Physics, Cornell Univ. 1987–1990
Ph.D. physics, Cornell University 1996
Postgraduate Research Chemist, Univ. of California at San Diego 1996–1999
Dept. of Physics and Astronomy, SUNY at Geneseo
Assistant Professor 1999
Associate Professor 2008
Professor 2018
Board of Directors, Upstate New York Chapter, American Vacuum Society 2000–07
Technical Program Chair 2001–06
demonstrator, Rochester Museum and Science Center 2003–present

Research Council 2005–08
Professional Leave Review Committee 2010–13
Chancellor’s Award for Excellence in Faculty Service 2016
Faculty Personnel Committee 2018–20
Co-chair, Standard VI subcommittee, Middle States Steering Committee 2020–present
SUNY University Faculty Senate
active member, Campus Governance Leaders caucus 2013–17
Convener of Campus Governance Leaders 2017–18
UFS Governance Committee 2017–present
UFS Bylaws demolition and reconstruction crew 2018–20

Governance

SUNY Geneseo, College Senate
Departmental Senator 2000–02, 2004–05, 2006–08
At-Large Senator (campus elected) 2008–13
Chair, Faculty Affairs Committee 2001–02, 2008–09, 2010–12
Presiding Officer of the Faculty (aka College Senate Chair) 2013–17
Past Presiding Officer of the Faculty 2017–19
University Faculty Senator 2019–present
SUNY Geneseo
President’s Task Force on Faculty Roles and Rewards 2002–04

Administrative

Physics Departmental Executive/Personnel Committee 8 years, 2002–
Chair, Physics Departmental Review Committee 2007–08

Fun & Life

SUNY Geneseo Festival Chorus 2002–08
Treasurer and Book Sale Coordinator, Friends of Wadsworth Library 2004–10
Founding Organizer, Geneseo Central School PTSA Math-Science-Technology Fair 2008–present
Advisor, SUNY Geneseo Medieval Club 2009–2013
Chartered Organization Representative, BSA Scout Troop 4070 2014–present

Recent Research, Programs, and Publications

- Solid state nuclear particle detectors: \$143,000 from Department of Energy over 11 years. 11 national meeting presentations 2002–2018, papers published 2005 and 2018.
- Airflow during trumpet playing: unfunded research. 4 national meeting presentations 2004–2011, paper published 2012.
- Computer simulations of granular ceramic armor: \$522,834 from New York Office of Science, Technology & Academic Research, 2006–09. National meeting 2010, paper published 2010.
- Physics Teachers Education Coalition and Noyce Scholarship program: co-PI on programs supporting pre-service physics teachers, \$1,273,231 from National Science Foundation, 2011–present.
- Research Experiences for Undergraduates: \$200,678 from National Science Foundation, 2016–2019.
- Sound Physics*: general education textbook, 250pp. To be published through SUNY Open Textbooks.