

## James Gibbs McLean

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### Notable Governance Products

- 2004: As a member of the President's Task Force on Faculty Roles and Rewards, developed a comprehensive conceptualization of the roles of academic faculty  
<https://www.geneseo.edu/~mclean/images/rolescicle.pdf>
- 2009: As chair of the Geneseo Faculty Affairs Committee, guided a completely redesigned Personnel Evaluation Report Form (PER-form) to adoption, after multiple years of development.
- 2014: As a Campus Governance Leader attending UFS plenary meetings, 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, received standing ovation after presiding over a contentious reduction of Geneseo's signature Humanities common core requirement.  
[https://en.wikipedia.org/wiki/State\\_University\\_of\\_New\\_York\\_at\\_Geneseo](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 Curriculum Design Working Group, 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 a member of the Bylaws subcommittee 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
M.S. physics, Cornell University	1990
Ph.D. physics, Cornell University	1996
Scanning Tunneling Microscopy of metal in Ultra High Vacuum (4 papers)	
Postgraduate Research Chemist, Univ. of California at San Diego	1996–1999
Scanning Tunneling Microscopy of Gallium Arsenide (6 papers)	
Lecturer for MCAT preparation, The Princeton Review/Hyperlearning	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

#### 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
<b>SUNY Geneseo</b>	
President’s Task Force on Faculty Roles and Rewards	2002–04
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
<b>SUNY University Faculty Senate</b>	
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

**Administrative**

Search Committee, Physics	2000–01, 2005–06
Physics Departmental Executive/Personnel Committee	8 years, 2002–20
Chair, Physics Departmental Review Committee	2007–08
Search Committee, external member	2007, 2008

**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
Pastoral Nominating Committee, Central Presbyterian Church of Geneseo	2010–11
Chartered Organization Representative, BSA Scout Troop 4070 and Merit Badge Counselor	2014–present

**Recent Research, Programs, and Publications**

- Solid State Nuclear Particle Detectors: research funded by \$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: research funded by \$522,834 from New York State Office of Science, Technology & Academic Research, 2006–09. 1 national meeting presentation (2010), paper published 2010.
- Physics Teachers Education Coalition and Noyce Scholarship program: co-PI on programs supporting pre-service high school physics teachers, funded by \$1,273,231 from National Science Foundation, 2011–present.
- Research Experiences for Undergraduates site: funded by \$200,678 from National Science Foundation, 2016–2019.
- Sound Physics*: textbook for general education course, 250pp. In use since 2013, to be published through SUNY Open Textbooks.