

James E. Mackin

CONTACT INFORMATION:

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ACADEMIC BACKGROUND:

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| 1983 | Ph.D., Geophysical Sciences, University of Chicago |
| 1979 | M.S., Oceanography, University of Michigan, College of Engineering |
| 1977 | B.S., Oceanography, University of Michigan, College of Engineering |

RECENT ADMINISTRATIVE EXPERIENCE:

2005-Present Provost and Vice President for Academic Affairs, Bloomsburg University of Pennsylvania (Comprehensive Masters institution with an enrollment of 8,900 students; direct oversight of a \$52 million budget)

Roles and Responsibilities:

The Provost and Vice President for Academic Affairs is responsible for the development and implementation of academic programs, curricula, and policies in support of the academic mission of the university. As chief academic officer, the Provost is responsible for the continuing financial and academic review of programs and gives leadership to academic program planning. The Provost is responsible for the advocacy of the academic mission, goals and objectives of the university and acts as the chief executive officer in the President's absence.

Initiatives and Achievements:

- A new strategic planning process, including analyses of institutional effectiveness and assessment of program learning outcomes, was developed and implemented.
- An Enrollment Management Plan was developed to guide student recruitment and retention activities university-wide. Execution of this plan has led to substantial increases in new student diversity and enrollment at the university.
- A new faculty information system (SEDONA) was implemented university-wide to facilitate efficient management of faculty information.
- New surveys were developed to enhance and assist institutional assessment.
- A new summer schedule planning process was developed and implemented, resulting in substantial increases in headcount enrollment and total credit hours generated for the summer session.
- An incentivized scheduling process was developed for the summer session, where each academic department receives a portion of the net summer tuition revenues based on enrollment in department courses.
- New international student and faculty exchange agreements were signed with four universities in China, five universities in Ghana and three universities in Cameroon.

- One new undergraduate degree program and two new graduate programs were developed.
- Six undergraduate degree programs were placed in moratorium due to historically low enrollments.
- Faculty were recruited for the ASL/English Interpreting Program, which was reinstated in Spring 2008.
- The fall and spring class scheduling process was completely revised, resulting in a 20% reduction in overload assignments for faculty.
- Document management software was implemented to facilitate more efficient and productive management of student files and other documents.
- Event scheduling software was implemented to facilitate scheduling of classes.
- New transfer articulation agreements were formed with nine community colleges in eastern Pennsylvania.
- New degree completion programs were established at Luzerne County Community College and Lehigh Carbon Community College.
- Transfer equivalencies were established for all lower-division courses between Bloomsburg University and the fourteen community colleges in Pennsylvania and the thirteen other universities in the Pennsylvania State System of Higher Education.
- Six new living/learning communities were developed (Civic Engagement, Helping Professions, International Studies, Social Justice, Fine Arts and Humanities, and Business), and a process was put in place to facilitate the addition of at least two new living/learning communities each academic year.
- The Consortium on Race, Gender and Ethnicity was established to promote scholarship and curricular, faculty, and student development on the intersections of race, gender, and ethnicity.
- The President's Conversation on Diversity was established to promote discussions among faculty and staff regarding the value of diversity on university campuses.
- The Frederick Douglass Scholars Program was established to give individuals from historically underrepresented populations experiences that will help them develop the skills needed to be successful university faculty members.
- A process was put in place that encourages academic departments to form relationships with institutions having large numbers of historically underrepresented doctoral students.
- As a result of many new diversity initiatives, the diversity of both the faculty and the staff have increased significantly since 2004.
- Seventeen new faculty lines were authorized university-wide through a process that has resulted in more equitable distributions of faculty workload among academic departments.
- Improvement was achieved on more than 55% of the Pennsylvania State System of Higher Education accountability measures for the fiscal years 2005, 2006, 2007 and 2008.
- University-wide research grant submissions increased by more than 15% each year since FY 2004.
- The electrical engineering technology, health physics and computer science programs separately achieved ABET accreditation; the music program achieved full membership accreditation with the National Association of Schools of Music (NASM); and the Theatre program achieved associate member status in the National Association of Schools of Theatre (NAST).

- A voluntary laptop program was established in the College of Business and the College of Science and Technology.

2003-2005 Associate Provost, Clayton State University (Comprehensive Baccalaureate institution with an enrollment of 6,000 students; direct oversight of a \$2.2 million budget)

Roles and Responsibilities:

The Associate Provost reports to the Provost and Vice President for Academic Affairs and serves as the chief academic officer for the university in the absence of the Provost. The Associate Provost performs duties as assigned and is responsible for the general supervision and leadership of the academic support functions of the university.

Initiatives and Achievements:

- The University’s reaffirmation compliance report and subsequent focus and response reports were developed under the new *Principles of Accreditation*.
- The University’s *Quality Enhancement Plan* was developed as part of the reaffirmation effort under the new *Principles of Accreditation*.
- A new *Faculty Handbook* was developed and approved by the Faculty Council, to aid the University’s reaffirmation effort.
- Seven new baccalaureate degree programs were developed.
- Two year class schedules were developed for all academic programs.
- Block-Scheduling was implemented for all first-time, full-time freshmen, resulting in enhanced course availability through a “managed curriculum.”
- A new academic program review process was developed, featuring an external review component and a strategic planning process with detailed student outcome analyses.
- New surveys were developed to inform all aspects of the academic decision-making process.
- Classroom renovations were completed for all campus classrooms.
- Institutional research was completed for the Board of Regents approved master planning process.
- New freshman admission requirements were developed based on institutional research.
- A midterm advisory grading policy was put in place as part of an overall enrollment management plan.
- A University-wide grant approval process was developed through consultation with administrative groups and the Faculty Council.
- New processes were put in place to inform students regarding their current major, advisor, payment balance, email address, and contact information.
- A proposal was developed for a branch campus in Locust Grove, Georgia.
- An incentivized scheduling process was developed for the summer session, where each academic department receives a portion of the net summer tuition revenues based on enrollment in department courses.

2000-2002 Dean of University College and Special Assistant to the President for Educational and Academic Development, Prairie View A&M University
(Comprehensive Masters institution with an enrollment of 8,000 students; direct oversight of a \$30 million budget)

Roles and Responsibilities:

The Special Assistant to the President for Educational and Academic Development serves as the chief advisor to the President on all matters related to student recruitment and retention and academic programs. The Special Assistant is responsible to the President for the general supervision and leadership of the Texas Commitment to Prairie View A&M University OCR Priority Plan. The Dean of University College is the general administrative officer for University College. The Dean is responsible for coordination and general supervision of the academic enhancement, academic advisement, and student life areas for first-time freshmen.

Initiatives and Achievements:

- Strategies and materials were developed that resulted in \$186 million in appropriations from the Texas Legislature related to the Office of Civil Rights settlement with the state of Texas.
- The Texas Commitment to Prairie View A&M University OCR Strategic Plan was developed and a tracking document for the plan was developed through work with the Texas A&M University System and Texas Higher Education Coordinating Board personnel.
- One new baccalaureate degree program, five new masters degree programs and two new Ph.D. degree programs were developed.
- The Uniform Recruitment and Retention Strategies Plan for Prairie View A&M University was developed. Implementation of the plan resulted in a 6% increase in enrollment for the Fall 2002 semester.
- The Special Assistant served as the chair of the University-wide search committee, which resulted in the hiring of more than 40 new faculty members and increased the percentage of faculty with terminal degrees at the University from 62% in 2000 to 73% in 2002.
- A new General Education (Core) Curriculum was developed for the University.
- The Special Assistant coordinated the Prairie View A&M University participation on the Aerospace Academy, resulting in over \$3 million in grant funds.
- Contact was established between the RITE Reading Program and the Prairie View A&M University College of Education that eventually led to approval of a Master Reading Teacher Program at Prairie View A&M University.
- Four memoranda of understanding were established between Prairie View A&M University's College of Engineering and Texas A&M University.
- The University College Strategic Plan 2001-2006 was developed.
- The University Scholars Program was developed.

1998-2000 Vice President for Academic Affairs, Stillman College (Liberal Arts Baccalaureate institution with an enrollment of 1,500 students; direct oversight of a \$13 million budget)

Roles and Responsibilities:

The Vice President for Academic Affairs serves as the chief academic officer of the College with delegated presidential authority in academic matters. The Vice President is responsible to the President for the general supervision and leadership of the academic program.

Initiatives and Achievements:

- During the 1997-1998 academic year, an objective faculty evaluation form was developed through the shared governance structure of the College.
- The Stillman College board of trustees approved a new post-tenure review process for implementation beginning in the fall semester of 1999.
- A college-wide departmental peer evaluation instrument was developed for faculty.
- Dean and Department Head evaluation instruments were developed and implemented beginning in Fall 1998.
- An academic advisor evaluation instrument was developed and implemented in Spring 1999 in cooperation with the Office of Student Affairs.
- Department evaluation processes and instruments were developed.
- A new email system was completely installed during the Fall 1999 semester.
- Under the leadership of the Academic Affairs Office, implementation of new administrative software was initiated toward the end of the Spring 1999 semester.
- The Office of Academic Affairs led a college-wide faculty recruitment process, leading to the hiring of more than 30 new faculty members, which increased the percentage of faculty with terminal degrees at the College from 49% in 1997 to 80% in 2000.
- The Stillman College Board of Scholars was established.
- The Stillman College Instructional Strategies Board has been established.
- The Stillman College Technology Mini-Grant Program was established.
- The Stillman Teaching Portfolio grew out of discussions at two faculty meetings during the fall 1998 semester.
- The Office of Academic Affairs initiated the publication of the *Journal of the Undergraduate Scholar*, a journal of undergraduate research and creative activity, in the spring semester of 1999.
- The senior thesis graduation requirement was implemented for students graduating in Spring 2000.
- Senior departmental examinations were implemented.
- Student-centered policies were approved by the Academic Affairs Committee.
- Block-Scheduling was implemented for the Fall 1999 semester to maximize student choice under a “managed curriculum.”
- The Education Division prepared requirements for a Teacher Education program with guaranteed outcomes.
- The Stillman *Academic Advising Handbook* was developed.

1997-1998 Associate Dean of Undergraduate Academic Affairs, SUNY, Stony Brook
(Research I institution with an enrollment of 18,000 students; direct oversight of a \$50 thousand budget)

Roles and Responsibilities:

The Associate Dean of Undergraduate Academic Affairs provides supervision for the interdisciplinary academic programs offered in Stony Brook's six residential colleges, in collaboration with the Department of Residential Programs.

Initiatives and Achievements:

- The Living Learning Center Office worked with the Office of University Advancement to develop a plan for a Living Learning Center scholarship campaign. Scholarships were established for the Interdisciplinary Arts and Health and Wellness Living Learning Centers.
- The Living Learning Center Office worked with the Scholarship Office of the College of Arts and Sciences to develop a plan for "pipelining" Living Learning Center students into prestigious national scholarships.
- Three new Living Learning Centers were established.
- Guidelines for faculty directors were established in consultation with former and current Living Learning Center faculty directors.
- A new "rolling" admission procedure was implemented for new students. A student is notified of admission into the program within one week of receipt of his or her application.
- The Living Learning Center Program accepted 10 commuter students into the program for the spring 1998 semester.
- A non-credit "College Skills" course was developed.
- A free-of-charge peer tutorial service was established for Living Learning Center Students.
- An email information "hotline" was established (LLC@notes.cc.sunysb.edu).
- The Living Learning Center Office worked with the Career Placement Office to develop a plan for "pipelining" Living Learning Center students into prestigious internships.
- Arrangements were made to have two sections of EGC 101 (Writing Workshop) offered in the residence halls for the Fall 1997 semester and again for the Spring 1997 semester.
- New minors were approved for three existing Living Learning Centers.

OTHER PROFESSIONAL EXPERIENCE:

January 2008 Interim President, Bloomsburg University
2006 Temporary Instructor of Oceanography, Bloomsburg University
2003-2005 Professor of Chemistry, Clayton State University
2000-2003 Professor of Chemistry, Prairie View A&M University
1998-2000 Professor of Chemistry, Stillman College
1994-1997 Faculty Director, Environmental Studies Living Learning Center, SUNY, Stony Brook
1990-1995 Undergraduate Director, Marine Sciences Research Center, SUNY, Stony Brook
1989-1998 Associate Professor of Marine Sciences, SUNY, Stony Brook
1984-1989 Assistant Professor of Marine Sciences, SUNY, Stony Brook
1981-1983 Research Assistant, University of Chicago
1977-1980 Research Assistant, University of Michigan

RECENT GRANT WRITING AND FUNDRAISING ACTIVITY (2000 - PRESENT):

McNealey, E., I. Sanders and J.E. Mackin, co-PI's. Building Excellence on Tradition: New Directions and New Dimensions. Proposal submitted on behalf of the Stillman College to the Lilly Endowment/UNCF HBCU Program (\$1,250,256) — funded.

Mackin, J.E., PI. Implementing Technology Enhanced Multimedia Classrooms for Today and Tomorrow. Proposal submitted on behalf of the Stillman College to the UNCF/Microsoft Institutional Development Program (\$67,423) — not funded.

Dalton, M.J., J.E. Mackin, C. McKay, J. Reed, and L. Leger, co-PI's. The Aerospace Academy for Engineering and Teacher Education. Proposal submitted on behalf of the Aerospace Academy to the Houston Endowment (\$400,000) — funded.

Dalton, M.J., J.E. Mackin, J. Collett, and S. Sledge, co-PI's. Training Teachers of Youth in Selected High Technology Fields Related to the Aerospace Industry. Proposal submitted on behalf of the Aerospace Academy to the Texas Workforce Commission (\$2,400,000) — funded.

Dalton, M.J., J.E. Mackin, C. McKay, J. Reed, and L. Leger, co-PI's. Training Adults for High Technology Jobs in the Aerospace Industry. Proposal submitted on behalf of the Aerospace Academy to the Texas Workforce Commission (\$4,000,000) — not funded.

Dalton, M.J., P. McKay, J.E. Mackin, S. Sledge, J. Reed and P. Tribe, co-PI's. Achieving Performance Excellence Demonstration Project. Proposal submitted on behalf of the Aerospace Academy to the Texas Workforce Commission (\$600,000) — funded.

Sabouni, I., J.E. Mackin, and N. Bradford, co-PI's. A Program to Improve Aid to Victims of Domestic Violence and Sexual Assault: A Collaboration between Prairie View A&M University and Focusing Families of Texas. Proposal submitted to the HBCU program sponsored by the Department of Housing and Urban Development (\$500,000) — not funded.

Mackin, J.E., I. Sabouni, and N. Bradford, co-PI's. A Leadership Training Program: A Collaboration between Prairie View A&M University, Gulf Coast Region School Districts, and the Texas A&M University System Office of Community Development. Proposal submitted to the COPC program sponsored by the Department of Housing and Urban Development (\$500,000) — not funded.

Quddus, M. and J.E. Mackin, co-PI's. An Entrepreneurship Academic Program for Prairie View A&M University. Proposal submitted on behalf of Prairie View A&M University to the Kauffman Foundation (\$108,000) — funded (second submission).

Mackin, J.E., I. Sabouni, and N. Bradford, co-PI's. A Summer Institute for Texas Teachers and Counselors. Proposal submitted on behalf of Prairie View A&M University to the Houston Endowment (\$200,000) — not funded.

Mackin, J.E., I. Sabouni, and N. Bradford, co-PI's. An Architecture Pipeline for Economically Disadvantaged Students. Proposal submitted on behalf of Prairie View A&M University to the Kellogg Foundation (\$800,000) — not funded.

Mackin, J.E., S. Ardalan, and T.D. Jefferson, co-PI's. Information Technology Infrastructure Upgrade. Proposal submitted on behalf of Prairie View A&M University to the Microsoft Software Grant Initiative of the Thurgood Marshall Scholarship Fund (\$488,217) — funded.

Halton, S., W. Greene, D. Bass, J.E. Mackin, R. Wallace, M. Hall, and A. Rosser, co-PI's. Georgia Early College Initiative. Proposal submitted on behalf of Clayton State University and Clayton County School District to the Georgia Department of Education (\$450,000) — funded.

Mackin, J.E., PI. Student Support Services Program. Proposal submitted on behalf of Clayton State University to the Department of Education (\$1,097,280) — not funded.

Mackin, J.E. and R. Marande, co-PI's. A Computer Forensics Center for the Law Enforcement Agencies in Pennsylvania. Proposal submitted on behalf of Bloomsburg University to U.S. Congress for earmark consideration (\$1,710,000) – pending.

Mackin, J.E., J. Hollister, T. Fletcher, and J. Matta. Scholarship Funding for Luzerne County Community College/Bloomsburg University Degree Completion Program. Proposal submitted on behalf of Bloomsburg University to the John E. Morgan Foundation (\$100,000 per year, with a \$500,000 donation to the university's endowment in the second year) – funded.

RECENT PRESENTATIONS (2007 – PRESENT):

Mackin, J.E., 2007. Focusing University Priorities on National and International Issues. *China Liaoning (Shenyang) Chinese-Foreign University Presidents Forum*, Shenyang, P.R.C.

Mackin, J.E., S.E. Agbaw and I. Wright, 2008. Beyond the Freshman Year: Retention Strategies for Sophomores, Juniors and Seniors. *Pennsylvania State System of Higher Education Diversity Summit*, Harrisburg, PA.

Mackin, J.E., I. Wright and R. Wislock, 2008. Challenges and Practical Solutions to Diversifying a University Faculty and Staff. *CUPA-HR Eastern Region Conference Best Practices Forum*, Portland, ME.

Mackin, J.E., I. Wright and R. Wislock, 2008. Recruitment and Retention of Underrepresented Faculty, Staff and Students at a Traditionally White, Rural Institution of Higher Education. *21st Annual Conference on Race and Ethnicity*, Orlando, FL.

Mackin, J.E., J. Lincoln and P. Herring, 2008. Living and Learning Communities at Bloomsburg University of Pennsylvania. *American Association of State Colleges and Universities Academic Affairs Summer Meeting*, Boston, MA.

HONORS AND AWARDS:

2007 Dr. Martin Luther King, Jr. Humanitarian Service Award, Bloomsburg University

- 2004 Induction into Sigma Beta Delta Honor Society, Clayton State University
- 1998 Induction into Sigma Beta Honor Society, SUNY, Stony Brook
- 1996 Polity Appreciation Award, SUNY, Stony Brook
- 1988 Marine Sciences Associates Teaching Award, SUNY, Stony Brook
- 1979 Distinguished Achievement Award, Graduate, University of Michigan
- 1977 Ross Award for Academic Achievement, University of Michigan
- 1977 Distinguished Achievement Award, Undergraduate, University of Michigan
- 1977 Magna Cum Laude Graduate, University of Michigan

PROFESSIONAL DEVELOPMENT:

- 2008 Relationship Building Workshop for Fund Raising, Stelter Co., July 9-10, Bloomsburg, PA
- 2004 Millennium Leadership Initiative: Preparing the Next Generation of Presidents and Chancellors, American Association of State Colleges and Universities, July 26-29, Washington, DC
- 2001 Change Acceleration Process, General Electric Co. Inc., May 21-22, Houston, TX
- 2000 Nissan – ETS HBCU Summer Institute: Academic Leadership: Challenges and Opportunities for the New Millennium, July 16-21, New Orleans, LA

COMMUNITY OUTREACH:

- 2008-Present Susquehanna Valley Community Education Project Steering Committee Member
- 2007-Present Pennsylvania Black Conference on Higher Education Member
- 2007-Present Schuylkill County Curriculum Coordinators Member
- 2006-Present Pennsylvania Coalition of Schools Advisory Board Member
- 2005-Present Columbia-Montour Chamber of Commerce Board Member (Chair, 2008-Present; Health and Wellness Task Force Member, 2008-Present; Nominations Committee Member, 2007)
- 1996-1998 “All the Way” Project Advisory Board
- 1995-1998 Camp Seawolf, Faculty Advisor
- 1995 Developed, with SBCF, Wetlands Discovery Tour
- 1994-1995 Coordinator, School-University Partnership for Environmental Education and Research
- 1994 Developed, with SBCF, a Fourth Grade Field Trip Program
- 1994 Coordinator, Smithtown Middle School Marine Workshop
- 1993 Established a Cooperative Agreement with the Stony Brook Community Fund (SBCF)
- 1993 Developed, with SBCF, an Adult Education Seminar Series
- 1991-1992 Coordinator, LILCO/MSRC Teacher Training/Workshop Series

INSTITUTIONAL SERVICE:

Bloomsburg University of Pennsylvania:

- 2008-Present Students in Free Enterprise Advisory Board Member
- 2008 Pennsylvania State System of Higher Education Learning Management System Task Force Member

2007-2008 Continuous Improvement Steering Committee Member
 2006-Present Statewide Transfer Articulation Oversight Committee Member (Chair, Science and Mathematics Subcommittee, 2007-Present)
 2006-Present Honorary Degree Committee Chair
 2006-2007 Pennsylvania State System Articulation and Transfer Advisory Council Member
 2005-Present New Ventures Committee (Bloomsburg University Foundation) Member
 2005-Present Meet and Discuss Co-chair
 2005-Present Budget Subcommittee Member
 2005-Present Planning and Budget Committee Co-chair
 2005-Present Bloomsburg University Curriculum Committee Co-chair
 2005-Present Secretariat Member
 2005-Present University-Wide Planning and Assessment Workshop Coordinator
 2005-2006 Director of Alumni Affairs Search Committee Chair

Clayton State University:

2004-2005 University Online Course Coordinator
 2004-2005 Enrollment Management Committee Chair
 2004-2005 Transfer Ombudsperson for Clayton State University
 2004 Vice President for Information Technology and Services Search Committee Chair
 2003-2005 National Survey of Student Engagement Institutional Representative
 2003-2005 Lead Writer for the Annual Report of Institutional Progress to the University System of Georgia
 2003-2004 Quality Enhancement Plan Steering Committee Member
 2003-2004 Quality Enhancement Plan Mentoring and Advisement Subcommittee Member
 2003 University-wide Grant-Writing Workshop Coordinator

Prairie View A&M University:

2003 College of Arts and Sciences Promotion and Tenure Committee Chair
 2003 College of Arts and Sciences Peer Review Committee Member
 2002-2003 Chemistry Department Faculty Search Committee Member
 2002-2003 American Chemical Society Accreditation Committee Chair
 2001-2002 College of Business Department Head Search Committee Member
 2001-2002 Director, Texas Juvenile Crime Prevention Center Search Committee Member
 2001-2002 Chemistry Department Promotion and Tenure Committee Chair
 2000-2003 Graduate Council Member
 2000-2002 Teaching Portfolio Workshop Coordinator for University College and the College of Business
 2000-2002 Microsoft Excel Grading Workshop Coordinator
 2000-2001 Workload Policy Review Committee Chair
 2000-2001 University Faculty Search Committee Chair
 2000-2001 Dean of the College of Business Search Committee Chair
 2000-2001 Academic Council Member

The University at Stony Brook:

1997-1998 Chair, Educational Opportunity Program Assistant Director Search
 1996-1998 Sigma Beta Honor Society, Faculty Advisor
 1996-1998 Faculty-Student Association Board Member (Vice President 1997-1998)

1996-1998 Faculty-Student Association Retail Services Committee Member
1996-1997 Roth Pond Regatta, Faculty Advisor
1996-1997 Graduate Council Committee on TA Training Member
1996-1997 Chair, Committee to Create an Undergraduate Degree for Adult Learners
1996-1997 President, College of Arts and Sciences Senate

- 4 resolutions and policies approved

1996-1997 SUNY-Wide Campus Life Committee Member
1996 Morris Udall Scholarship, Faculty Representative
1996 Barry Goldwater Scholarship, Faculty Representative
1996 Selection Committee Member, President's Award for Excellence in Professional Service
1996 Mentor Program, Faculty Participant
1996 Honors College Advisory Board Member
1996 Faculty Co-chair, Student-Faculty-Staff Retreat
1996 Faculty Director, Scholarly Activity and General Education Program
1995-1998 General Faculty Advisor, New Student Orientation Program
1995-1998 Peer Advisor Program, Faculty Representative
1995-1997 Hearing Board, Faculty Representative
1995-1996 School of Professional Development Committee on Academic Standing Member
1995-1996 Senate Ad Hoc Committee on Education Member
1995-1996 Chair, Marine Sciences Research Center EEO Committee
1995-1996 Chair Undergraduate Council of the University Senate

- 22 resolutions and policies approved

1995 Provost's Task Force on Classroom Space Member
1995 President's Task Force on Teaching and Learning Member
1995 Selection Committee Member, Teaching Merit Raises
1993-1998 School of Professional Development Council Member
1993-1996 School of Professional Development Curriculum Committee Member
1993 Federated Learning Communities Advisory Board Member
1993 Faculty-in-Residence, Wagner College
1992-1998 Undergraduate Council of the University Senate Member
1992-1996 USB 101 Instructor
1985-1986 At-Large Senator, University Senate

PUBLICATIONS:

Books:

Mackin, J.E., in press. *The Science of Oceanography*, Nova Science Publishers, Inc.

Reviewed Manuscripts:

Stein, J.L. and J.E. Mackin, 1998. Specialized programs and services which focus on student learning within residential settings: Forging partnerships between Academic and Student Affairs which create opportunities for students that promote learning. In: *Residential Colleges: Reforming American Higher Education* (F.K. Alexander and D.E. Robertson, ed.), pp. 85-98.

- Aller, R.C. and J.E. Mackin, 1989. Open incubation, diffusion methods for measuring solute reaction rates in sediments. *J. Mar. Res.*, 47: 411-440.
- Mackin, J.E., 1989. Relationships between Si, Al, and Fe deposited on filter-covered glass substrates in marine sediments and in suspensions of sediments and standard clays. *Mar. Chem.*, 26: 101-117.
- Mackin, J.E. and R.C. Aller, 1989. The nearshore marine and estuarine chemistry of dissolved aluminum and rapid authigenic mineral precipitation. *Reviews in Aquatic Sciences*, 1: 537-554.
- Mackin, J.E. and K.T. Swider, 1989. Organic matter decomposition pathways and oxygen consumption in coastal marine sediments. *J. Mar. Res.*, 47: 681-716.
- Michelson, A., M.I. Jacobson, M.I. Scranton and J.E. Mackin, 1989. Modeling the distribution of acetate in anoxic estuarine sediments. *Limnol. Oceanogr.*, 34: 747-757.
- Swider, K.T. and J.E. Mackin, 1989. Transformations of sulfur compounds in salt marsh-flat sediments. *Geochim. Cosmochim. Acta*, 53: 2311-2323.
- Mackin, J.E., R.C. Aller and W.J. Ullman, 1988. The effects of iron reduction and nonsteady-state diagenesis on iodine, ammonium, and boron distributions in sediments from the Amazon continental shelf. *Continental Shelf Res.*, 8: 363-386.
- Ullman, W.J., G.W. Luther, R.C. Aller and J.E. Mackin, 1988. Dissolved iodine behavior in estuaries along the east coast of the United States. *Mar. Chem.*, 25: 95-106.
- Jacobson, M.E., J.E. Mackin, and D.G. Capone, 1987. Ammonium production in sediments inhibited with molybdate: Implications for the sources of ammonium in anoxic marine sediments. *Appl. Environ. Microbiol.*, 53: 2435-2439.
- Mackin, J.E., 1987. Boron and silica behavior in salt-marsh sediments: Implications for paleo-boron distributions and the early diagenesis of silica. *Amer. J. Sci.*, 287: 197-241.
- Mackin, J.E. and K.T. Swider, 1987. Modeling the dissolution behavior of standard clays in seawater. *Geochim. Cosmochim. Acta*, 51: 2947-2964.
- Aller, R.C., J.E. Mackin and R.T. Cox, 1986. Diagenesis of Fe and S in Amazon inner shelf muds: Apparent dominance of Fe reduction and implications for the genesis of ironstones. *Continental Shelf Res.*, 6: 263-289.
- Mackin, J.E., 1986. Control of dissolved Al distributions in marine sediments by clay reconstitution reactions: Experimental evidence leading to a unified theory. *Geochim. Cosmochim. Acta*, 50: 207-214.

- Mackin, J.E., 1986. The free-solution diffusion coefficient of boron: Influence of dissolved organic matter. *Mar. Chem.*, 20: 131-140.
- Mackin, J.E. and R.C. Aller, 1986. The effects of clay mineral reactions on dissolved Al distributions in sediments and waters of the Amazon continental shelf. *Continental Shelf Res.*, 6: 245-262.
- Aller, R.C., J.E. Mackin, W.J. Ullman, C.-H. Wang, S.-W. Tsai, J.-C. Jin, Y.-N. Sui and J.-Z. Hong, 1985. Early chemical diagenesis, sediment-water solute exchange, and storage of reactive organic matter off the mouth of the Changjiang, East China Sea. *Continental Shelf Res.*, 4: 227-251.
- Aller, R.C. and J.E. Mackin, 1984. Preservation of reactive organic matter in marine sediments. *Earth Planet. Sci. Lett.*, 70: 260-266.
- Mackin, J.E. and R.C. Aller, 1984. Processes affecting the behavior of dissolved aluminum in estuarine waters. *Mar. Chem.*, 14: 213-232.
- Mackin, J.E. and R.C. Aller, 1984. Diagenesis of dissolved aluminum in organic-rich estuarine sediments. *Geochim. Cosmochim. Acta*, 48: 281-297.
- Mackin, J.E. and R.C. Aller, 1984. Dissolved Al in sediments and waters of the East China Sea: Implications for authigenic mineral formation. *Geochim. Cosmochim. Acta*, 48: 299-313.
- Mackin, J.E. and R.C. Aller, 1984. Ammonium adsorption in marine sediments. *Limnol. Oceanogr.*, 29: 250-256.
- Aller, R.C., J.E. Mackin, W.J. Ullman, C.-H. Wang, S.-W. Tsai, J.-C. Jin, Y.-N. Sui and J.-Z. Hong, 1983. Early chemical diagenesis and sediment-water solute exchange in the East China Sea. In: *Proc. Internat. Symp., Vol. 2, Sedimentation on the Continental Shelf*, China Ocean Press, Hangzhou, China, pp. 777-794.
- Mackin, J.E. and R.C. Aller, 1983. The infinite dilution diffusion coefficient for $\text{Al}(\text{OH})_4^-$ at 25°C. *Geochim. Cosmochim. Acta*, 47: 959-961.
- Meyers, P.A., R.M. Owen and J.E. Mackin, 1981. Organic matter and heavy metal concentrations in the particulate phase of Lake Michigan surface microlayers. In: *Atmospheric Input of Pollutants to Natural Waters* (S.J. Eisenreich, ed.).
- Mackin, J.E., R.M. Owen and P.A. Meyers, 1980. Environmental controls on the composition of the surface microlayer in Lake Michigan. *Mich. Sea Grant Progr. Tech. Rept. MICHU-SG-80-203*, 45 pp.
- Mackin, J.E., R.M. Owen and P.A. Meyers, 1980. A factor analysis of elemental associations in the surface microlayer of Lake Michigan and its fluvial inputs. *J. Geophys. Res.*, 85: 1563-1569.

Owen, R.M. and J.E. Mackin, 1980. Authigenic associations between selected rare earth elements and trace metals in lacustrine sediments. *Environ. Geol.*, 3: 131-137.

Mackin, J.E. and R.M. Owen, 1979. The geochemistry of bottom sediments from Little Traverse Bay, Lake Michigan: Influence of physical processes. *Can. J. Earth Sci.*, 16: 532-539.

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Unreviewed Manuscripts:

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