

DEPARTMENT RANKING

- ◆ 4th among all public universities
 - ◆ 15th among all physics departments nationally
- (2006 U.S. News & World Report)

SIZE: One of the largest physics research programs in the U.S.

GRADUATE EDUCATION & RESEARCH PROGRAMS

Experimental Groups (15):

- ◆ Astro-Metrology (AM)
- ◆ Atomic Molecular & Optical (AMO)
- ◆ Center for Superconductivity Research (CSR)
- ◆ Condensed Matter (CME)
- ◆ Cosmic Ray Physics (CRP)
- ◆ Gravitation Experiment (GRE)
- ◆ High Energy Physics with Accelerators (HEP)
- ◆ Non Linear Dynamics & Chaos (NLDC)
- ◆ Nuclear Physics (NPE)
- ◆ Particle Astrophysics (PA)
- ◆ Physics Education Research Group (PERG)
- ◆ Quantum Electronics: Relativity & Quantum Mechanics (QE)
- ◆ Space Physics (SP)
- ◆ Spintronics & Spin Quantum Computing (SSQC)
- ◆ Superconducting Quantum Computing (SQC)

Theoretical Groups (11):

- ◆ Atomic Molecular & Optical (AMO)
- ◆ Condensed Matter (CMT)
- ◆ Dynamical Systems & Accelerator Theory (DSAT)
- ◆ Elementary Particles (EP)
- ◆ Gravitation Theory (GT)
- ◆ Non Linear Dynamics & Chaos (NLDC)
- ◆ Plasma Physics (PPT)
- ◆ Theoretical Quarks, Hadrons & Nuclei (TQHN)
- ◆ Quantum Coherency & Information (QCI)
- ◆ Spintronics & Spin Quantum Computing (SSQC)

Other UM Research Involvements:

- ◆ Charged Particle Beam Research (CPB)
- ◆ Chemical Physics (CP)
- ◆ Institute for Physics Science & Tech-

FACTS

2007-2008



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- ◆ nology (IPST)
- ◆ Institute for Research in Electronics & Applied Physics (IREAP)
- ◆ Institute for Systems Research (ISR)
- ◆ Institute for Advanced Computer Studies (UMAICS)
- ◆ Mathematical Physics (MP)

FACULTY

- ◆ 60 Full Professors (includes 8 Distinguished Univ. Professors; 2 Distinguished Univ. Fellows; 2 Univ. Sys. Of MD Regents Professors)
- ◆ 1 Named Chair: Alford Ward Chair of Semiconductor Physics
- ◆ 6 Associate Professors
- ◆ 6 Assistant Professors
- ◆ 2 Chancellors Emeritus
- ◆ 1 President Emeritus (UM)
- ◆ 19 Research Scientists
- ◆ 62 Research Associates
- ◆ 70 Faculty Research Assistants
- ◆ 6 Slawsky Tutoring Clinic Staff

FACULTY AWARDS &

HONORS

- ◆ Boltzmann Medal
- ◆ COSPAR Medal
- ◆ Buckley Prize-Condensed Matter
- ◆ Dirac Medal
- ◆ Distinguished Scholar-Teachers
- ◆ Goeppert-Mayer Award
- ◆ Guthrie Medal & Prize (UK)
- ◆ Heinemann Prize-Mathematical Physics
- ◆ Hirschfelder Prize
- ◆ Humboldt Prize
- ◆ Irving Langmuir Prize
- ◆ Lenin Prize (USSR)
- ◆ Maxwell Prize in Plasma Physics
- ◆ Meggers Award
- ◆ Millikan Medal
- ◆ Nobel Prize
- ◆ Onsager Prize in Statistical Physics
- ◆ Simon Memorial Prize
- ◆ Szilard Award
- ◆ Tate Medal
- ◆ Wetherill Medal
- ◆ Wolf Prize
- ◆ World Science for Peace Prize
- ◆ APS Fellows
- ◆ American Academy of Arts & Science Fellows
- ◆ American Association for the Advancement of Science Fellows
- ◆ A VS Fellows
- ◆ AGU Fellows
- ◆ Cottrell Scholars Fellowship
- ◆ Guggenheim Fellows
- ◆ IEEE Fellows
- ◆ NY (PIY)'s
- ◆ Presidential Early Career Award
- ◆ Packard Fellow
- ◆ Sloan Fellows
- ◆ National Academy of Science Members
- ◆ New York Academy of Science Members
- ◆ Washington Academy of Science Fellows
- ◆ Members of the Royal Society

STUDENTS

- ◆ 250 Undergraduate Majors
- ◆ 215 Graduate Students
- ◆ 20 Graduate Fellows
- ◆ 40 Entering Undergraduate Students in 2007
- ◆ Average SAT for Fall 200 incoming freshmen:
Math - 720
Verbal - 670
- ◆ 138 Graduate Research Assistants
- ◆ 43 Teaching Assistants
- ◆ 1 : 18 ratio of faculty to undergraduate majors

BUDGET & FUNDING

- ◆ *FY '02 State Budget*
\$10.8 M
- ◆ *FY '02 Externally Funded Research Expenditures*
\$20 M
- ◆ *Total FY '02 Budget*
\$30.8 M

UNDERGRADUATE PROGRAMS

- ◆ B.S. degree in traditional physics provides career skills or preparation for graduate study. Interdisciplinary tracks including meteorology and education
- ◆ Honors Program in Physics
- ◆ Physical Sciences Program
- ◆ Undergraduate Research Opportunities Program (UROP) provides hands-on research experience for undergraduates
- ◆ Slawsky Tutoring Clinic
- ◆ Society of Physics Students-very active chapter of national society

OUTREACH PROGRAMS

- ◆ Physics is Phun (since 1982). A public lecture-demonstration series; 4 programs per year, each offered on 3 consecutive days
Total attendance is 5,000 per year
- ◆ Traveling Physics is Phun Van presents program to schools & organizations in the region
- ◆ Annual Physics Olympics. Competition involves 35-40 teams from high schools in Maryland, Northern Virginia, & Washington, D.C.
- ◆ AAPT Physics Olympiad training. UM has served as the training site for 10 years
- ◆ Physics Summer Outreach Program for Middle School Girls. A two-week program offered on campus for 14 years.
- ◆ MRSEC Outreach: adopted Kettering Middle School; offers Research Experiences for Undergraduates program; indus-

trial outreach; exchange program with Osaka Univ.; Summer Girls Program.

EXTERNAL RELATIONS

National

- ◆ American Center for Physics. Relocated to College Park, adjacent to UM, in November '93. Cooperative activities.
- ◆ American Association of Physics Teachers (AAPT)
- ◆ American Institute of Physics
- ◆ American Physical Society (APS). (UM Physics Professor, Dr. Robert Park, is Executive Director of the APS Office of Public Affairs)
- ◆ American Association of Physicists in Medicine (AAPM)
- ◆ Thomas Jefferson National Accelerator Facility (formerly CEBAF/SURA). Participant in multi-university experiments
- ◆ Fermi National Accelerator Laboratory. Participant in D0 and E665 experiments.
- ◆ NASA & UM East-West Space Science Center. Space Station collaboration

NASA Goddard Space Flight

Center collaborations:

- ◆ Laboratory for Astronomy and Solar Physics
- ◆ Laboratory for High Energy Astrophysics
- ◆ Naval Research Laboratory (NRL)
- ◆ Cooperative Program in Plasma Physics
- ◆ National Institute of Standards and Technology (NIST) collaborations
- ◆ Physics Laboratory (Electron and Optical Physics Division; Radiometric Physics Division)
- ◆ Materials Science and Engineering Laboratory (Reactor Radiation Division)
- ◆ National Institutes of Health (NIH). Biophysics of fellowships
- ◆ Neocera, Inc.-graduate of UM incubator program-spin-off company of Center for Superconductivity Research; manufactures thin-film hardware and related technologies
- ◆ Southeastern Universities Research Association (SURA). SURA Fellowships
- ◆ Stanford Linear Accelerator Center (SLAC) Participant in BABAR experiment at the B-Factory

International

- ◆ Center for European Nuclear Research

(CERN, Geneva). Participate in OPAL and CMS experiments

- ◆ National Central University, Taiwan. Collaborative exchange agreement with UM Physics Dept.
- ◆ Nuclear Science Center, New Delhi, India. Participate in experiments on ion-beam effects on superconductors.
- ◆ University of Bremen, Germany.

FACILITIES

8 Shop Facilities

- ◆ Mechanical Development
- ◆ Electronic Development
- ◆ Engineering and Design
- ◆ Technical Illustration
- ◆ Print Shop
- ◆ Student Shop
- ◆ Raw Materials Stores
- ◆ Physical Stores

Largest Lecture-Demo Facility in the United States — over 1,500 demonstrations, (seats 500).

AFFILIATED CENTERS

- ◆ Center for Superconductivity Research
- ◆ East-West Space Science Center
- ◆ NSF Materials Research Science & Engineering Center
- ◆ Condensed Matter Theory Center
- ◆ Center for Particle & String Theory
- ◆ Center for Scientific Computation & Mathematical Modeling
- ◆ Institute for Physical Science & Technology
- ◆ Institute for Research in Electronics & Applied Physics (IREAP)
- ◆ Institute for Systems Research
- ◆ Institute for Advanced Computer Studies
- ◆ Maryland Center for Integrated Nano Science & Engineering
- ◆ Materials Research Science & Engineering Center

FACULTY

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