

meaningful results in and of themselves).

**Matching Requirements:** The Chemical Science and Technology Laboratory Grants Program does not require any matching funds.

**Contact:** For information on the Chemical Science and Technology Laboratory Grants Program, please contact Dr. William Koch, (301) 975-8301.

**Application Kit:** For the CSTL Grants Program, an application kit, containing all required application forms and certifications is available by contacting Mr. Neil Alderoty, (301) 975-8303.

### Physics Laboratory Grants Program

**Dates:** The Physics Laboratory Grants Program proposals must be received no later than the close of business September 30, 2003. Proposals received after June 30, 2003, will continue to be processed and considered for funding but may be funded in the next fiscal year, subject to the availability of funds.

**Addresses:** For the Physics Laboratory Grant Program applicants are requested to submit one signed original and two copies of the proposal clearly marked to identify the field of research to: Attn. Ms. Anita Sweigert, National Institute of Standards and Technology, 100 Bureau Drive, Stop 8400, Gaithersburg, MD 20899-8400. Tel (301) 975-4200. E-Mail: [anita.sweigert@nist.gov](mailto:anita.sweigert@nist.gov).

**Authority:** As authorized under 15 U.S.C. 272 (b) and (c), the Physics Laboratory conducts a basic and applied research program directly and through grants and cooperative agreements to eligible recipients.

**Program Description and Objectives:** All proposals submitted to the Physics Laboratory Grants Program must be in accordance with the program objectives listed below. The appropriate Program Manager for each field of research may be contacted for clarification of the program objectives.

**I. Electron and Optical Physics Division, 841—**The objective is to supplement division activities in characterization of nanometer-scale electronic and magnetic structures, characterization of EUV optical components to support semiconductor lithography and ultraviolet radiometric metrology, and to support ongoing activities in Bose-Einstein condensation and quantum information. The contact person for this division is: Dr. Charles W. Clark and he may be reached at (301) 975-3709.

**II. Atomic Physics Division, 842—**The primary objective is to support division programs aimed at determining basic atomic properties and developing new metrology techniques in atomic

spectroscopy, quantum processes, plasma radiation, laser cooling and trapping, and quantum metrology. The contact person for this division is: Dr. Wolfgang L. Wiese and he may be reached at (301) 975-3200.

**III. Optical Technology Division, 844—**The primary objective is to develop, improve and maintain national standards for radiation thermometry, spectroradiometry, photometry, and spectrophotometry as well as conduct basic theoretical and experimental research on the photophysical and photochemical properties of materials, in radiometric and spectroscopic techniques and instrumentation, and in the application of optical technologies. The contact person for this division is: Dr. Albert C. Parr and he may be reached at (301) 975-2316.

**IV. Ionizing Radiation Division, 846—**The primary objective is to provide primary standards, measurement methods, and technology to support the Division's work in meeting national needs in radiation interactions and dosimetry, neutron interactions and dosimetry, and radioactivity including both theoretical/experimental and applied research programs in Homeland Security and Health Care. The contact person for this division is: Dr. Bert M. Coursey and he may be reached at (301) 975-5584.

**V. Time and Frequency Division, 847—**The primary objective is to supplement division basic and applied research programs in the areas of phase noise measurements, network synchronization, ion storage, atomic standards and optical frequency measurements in support of future standards, dissemination services, and measurement methods. The contact person for this division is: Dr. Donald B. Sullivan and he may be reached at (303) 497-3772.

**Eligibility:** The Physics Laboratory Grants Program is open to institutions of higher education; hospitals; non-profit organizations; commercial organizations; state, local, and Indian tribal governments; foreign governments; organizations under the jurisdiction of foreign governments; and international organizations.

**Funding Availability:** In fiscal year 2003, the Physics Laboratory anticipates funding of approximately \$2,000,000, including new awards and continuing projects. Funding availability will be apportioned by quarter. Individual awards are expected to range from approximately \$5,000 to \$300,000.

**Proposal Review Process:** For the Physics Laboratory Grants Program, responsive proposals will be considered as follows: first, at least three

independent, objective individuals knowledgeable about the particular scientific area described in the section above that the proposal addresses will conduct a technical review of each proposal, based on the evaluation criteria described below. Reviews will be conducted on a monthly basis, and all proposals received during the month will be ranked based on the reviewers' scores. If non-Federal reviewers are used, reviewers may discuss the proposals with each other, but scores will be determined on an individual basis, not as a consensus.

Next, the Division Chief will make final application selections, taking into consideration the results of the reviewers' evaluations, including rank; the compilation of a slate that, when taken as a whole, is likely to best further the program goals described above; and the availability of funds.

The final approval of selected applications and award of financial assistance will be made by the NIST Grants Officer based on compliance with application requirements as published in this notice, compliance with applicable legal and regulatory requirements, compliance with Federal policies that best further the objectives of the Department of Commerce, and whether the recommended applicants appear to be responsible.

Applicants may be asked to modify objectives, work plans, or budgets and provide supplemental information required by the agency prior to award.

The decisions of the Grants Officer are final.

**Evaluation Criteria:** For the Physics Laboratory Grants Program, the evaluation criteria the technical reviewers will use in evaluating the proposals are as follows:

1. **Rationality.** Reviewers will consider the coherence of the applicant's approach and the extent to which the proposal effectively addresses scientific and technical issues.

2. **Qualifications of Technical Personnel.** Reviewers will consider the professional accomplishments, skills, and training of the proposed personnel to perform the work in the project.

3. **Resources Availability.** Reviewers will consider the extent to which the proposer has access to the necessary NIST or other facilities and overall support to accomplish project objectives.

4. **Technical Merit of Contribution.** Reviewers will consider the potential technical effectiveness of the proposal and the value it would contribute to the field of physics.

Each of these factors will be given equal weight in the evaluation process.