



August 1999 Newsletter

Chair's Message August, 1999

By now I hope that most of you have seen, by email, the exceptional slate of candidates for offices in the DLS. Please, IMMEDIATELY turn to the ballot in this newsletter and select your choices for the colleagues who will represent and serve us in the coming year. This year's ballot is particularly important because we will be choosing both a new Secretary-Treasurer and a new representative to APS Council. Win Smith and Dan Grischkowsky, respectively, have held these positions, and we owe them a great debt of gratitude for their service to the Division. These are positions of great responsibility, extending over several years, and we have been fortunate to have such good people to fill them. Those elected to these positions, as well as Vice Chair and Council members will, along with those elected in previous years, have the responsibility of leading a vigorous DLS into the year 2000.

Please take note of the announcement of the annual DLS meeting, which will be held jointly with the OSA annual meeting at the end of September. A significant event of this meeting will be a special session, on Sunday 26 September 1999, in honor of Art Schawlow, who passed away earlier this year. Several of Art's friends and colleagues will share personal and scientific remembrances of him.

If you can, plan to attend this session and the reception and dinner associated with it.

The ILS is the highlight of our DLS year, and Lewis Rothberg (conference chair) and Margaret Murnane (program chair) have planned an exciting meeting. Visit the conference web site by going to www.osa.org/mtg_conf/annual/ and clicking on ILS-XV.

Your Division of Laser Science continues to be a strong and vital force for the promotion of laser science. Our programs of travel support for students attending conferences, for student summer research, for the Distinguished Traveling Lecturers, the Schawlow Prize and other activities are made possible by the hard work of the membership and our strong financial condition. We are always looking for more effective ways to serve the laser science community, and the leadership of the DLS welcomes your suggestions. For a complete description of the programs available thanks to DLS, visit our web page at www.physics.wm.edu/~cooke/dls/dls.cfm, or follow www.aps.org to "Divisions" and "Laser Science". I hope that during the coming year you will consider nominating your students and your colleagues for the programs and honors of our Division. And as always, encourage your

colleagues in laser science who are not members of DLS to join and begin to enjoy the benefits of our programs as well as the opportunity to extend their influence in their chosen field.

William D. Phillips

DLS AT THE APS CENTENNIAL MEETING

The DLS, a relatively new division of APS, participated very actively in the well-attended APS Centennial Meeting in Atlanta, last March 20-26. In addition to sponsoring a regular technical session and individual participation in numerous technical sessions, the DLS arranged two special Centennial Symposia and a special booth and Exhibit on Laser Science with the help of a committee consisting of Bob Boyd, Bill Phillips and Win Smith. DLS co-sponsored with DAMOP a Centennial Symposium on "The Impact of the Laser on Contemporary Physics" featuring Charles Townes, Nicolaas Bloembergen, James Gordon, Bill Phillips and Margaret Murnane as speakers. A second DLS-sponsored Centennial Symposium on "Applications of Lasers and New Physics", included speakers Steven Chu, James Fujimoto, Wayne Knox, Kent R. Wilson and Anton Zeilinger. The DLS Booth consisted of three parts: a giant prototype Pockels cell as part of an exhibit on the planned National Ignition Facility at Livermore (coordinated by Rick Freeman and Bill Hogan of LLNL); a make-your-own-hologram exhibit and working darkroom (coordinated by Bob Boyd and Ian Walmsley of the University of Rochester); and an exhibit on laser history, use in communications and in biological research, featuring a working two-photon confocal microscope with a living biological specimen (coordinated by Dick Slusher of Lucent Technologies' Bell Laboratories).

ILS-XV

The 15th Annual Interdisciplinary Laser Science Meeting (ILS-XV) will be held in Santa Clara, CA on September 26 - October 1, 1999. The 1999 Meeting, which is run jointly with the OSA Annual Meeting, will bring together an exciting multidisciplinary group of scientists to discuss new work in the rapidly moving fields of laser science and applications. Further information about ILS '99 can be obtained at http://www.osa.org/mtg_conf/. Please note the recently organized Arthur Schawlow Memorial events listed below.

Arthur Schawlow Memorial at ILS-XV

The following events have been scheduled for Sunday, September 26 1999 at the Santa Clara Convention Center.

Arthur Schawlow Memorial Reception

6:15-7:00 PM in the Great America Ballroom Lobby

Schawlow Memorial Session

7-8 PM Great America Ballroom

Friends of Professor Schawlow, including Professors Charles Townes, Steve Chu, Boris Stoicheff, and Ted Haensch will speak about his early contributions to optical science, his later work, his contributions as a teacher, as well as his public face, humor, and interviews.

DLS/OSA Schawlow Memorial Dinner

8 PM Santa Clara Ballroom

Tickets for the dinner are required (\$20/person). These should preferably be purchased in advance. See the Special Events Registration Form for ILS, now available at <www.osa.org/>. It's quite possible the tickets will be sold out early, so pre-registration is strongly recommended. (Note that the Schawlow dinner replaces the ILS banquet this year.)

STUDENT TRAVEL GRANTS

The DLS is pleased to continue its program to support student travel to DLS-sponsored meetings. A limited number of grants for travel and living expenses, up to \$700, are available to graduate students who are DLS members and who are authors or co-authors on an oral or poster paper at the ILS and QELS/CLEO meetings. Complete details can be found on the DLS website.

1998 APS FELLOWS

Along with those listed in the March 1999 newsletter, these DLS members were also named as APS Fellows in 1998. Congratulations to all of our DLS colleagues who were honored this year!

Ronald W. P. Drever, California Institute of Technology

For his fundamental experiment to test the isotropy of space and for his pioneering contributions to laser interferometry as a tool for gravitational-wave detection.

Phillipe M. Fauchet, University of Rochester

For experimental contributions to understanding properties of porous silicon.

Arjun Yodh, University of Pennsylvania

For contributions to the use of diffusing light fields in studies of the structural, dynamical, and spectroscopic properties of highly scattering materials.

DISTINGUISHED TRAVELING LECTURER PROGRAM IN LASER SCIENCE

The Distinguished Traveling Lecturer (DTL) program provides funds to send outstanding scientists and communicators in the areas covered by DLS to visit predominantly undergraduate colleges and universities. Visits are for two days and generally include lectures

and informal meetings with students and faculty. Details about the program and the application procedure can be found at the DLS web site at http://www.physics.wm.edu/~cooke/dls/p_dtl.cfm. **Applications for Spring 2000 are due October 15, 1999.**

The DTLs for the 1999-2000 Academic Year are:

- Lee W. Casperson, Portland State University, *Lasers and Optical Systems*
- Jim Kafka, Spectra Physics, *Laser Development*
- Wolfgang Ketterle, Massachusetts Institute of Technology, *Atom Cooling and Trapping*
- Mara Prentiss, Harvard University, *Atom Optics*
- Carlos Stroud, University of Rochester, *Wavepackets*

UNDERGRADUATE RESEARCH IN LASER SCIENCE

Six students received 1999 summer research support through the DLS Undergraduate Research in Laser Science Program. The students and their research advisors are listed below.)
Congratulations!

Student Advisor

Kevin P. Burke Prof. Jeffrey A. Bartz, Kalamazoo College

Sean Collins Prof. Laurie J. Butler, University of Chicago

Joshua Davis Prof. George Watson, University of Delaware

Joseph Gannon Prof. Stephanie Schaertel, Grand Valley State University

Nick Roland Prof. Gubbi Sudhakaran University of Wisconsin - La Crosse

Sarah Smolinski Prof. Stephanie Schaertel, Grand Valley State University

CALENDAR

ILS-XV, co-located with **OSA '99** Annual meeting, **September 26 - October 1, 1999**, Santa Clara, CA. http://www.osa.org/mtg_conf/ and <http://www.aps.org> (` Divisions ` DLS)

8th International Conference on Multiphoton Processes (ICOMP), **October 3-11, 1999**, Monterey, CA. <http://www.engr.ucdavis.edu/~icomp8/icomp.cfm>

CLEO/QELS 2000, May 7-12, 2000, San Francisco, CA. http://www.osa.org/mtg_conf/

DAMOP 2000, 31st meeting of the Division of Atomic, Molecular and Optical Physics, **June 14-17, 2000**, University of Connecticut, Storrs, CT. <http://www.aps.org>

Keep up on the Division of Laser Science on the DLS home page at <http://www.physics.wm.edu/~cooke/dls/dls.cfm> or via the APS home page (click on Division) at: <http://www.aps.org>

CANDIDATES FOR DLS OFFICES

VICE CHAIR

Roger Falcone, Professor and Chair, Physics Department, University of California, Berkeley (faculty since 1983); Marvin Chodorow Fellow, Applied Physics Department, Stanford University (1980-83); Ph.D. (Electrical Engineering) Stanford University (1979); A.B. (Physics) Princeton University (1974)

Research Interests: Interactions of intense and ultrashort laser pulses with matter; applications of lasers in atomic, plasma, and condensed matter physics; time-resolved x-ray scattering from materials undergoing dynamical changes.

Professional Activities: General Co-Chair, QELS Conference (1999); Physics Advisory Committee, LLNL (1995-present); Consultant for LLNL (1985-present); Chair of the Science Advisory Committee, Lawrence Hall of Science (1996-present); Fachbeirat of the Max-Planck-Institut für Quantenoptik (1996-present); NSF Review Committee for the LIGO Project (1993-present); Program Advisory Committee, Advanced Light Source, LBNL (1995-98); NRC Review Committee for the DOE Inertial Confinement Fusion Program (1996-97); Joint Council on Quantum Electronics (1995-97); U.C. Berkeley Academic Planning Board (1993-95); Associate Editor, *Optics Express* (1997-98); Topical Editor, *Optics Letters* (1989-93); International Council on Quantum Electronics (1995-96); Chair, Optical Science Division, Technical Council, OSA (1995-96); Steering Committee, Laser Science Topical Group, APS (1988-90); Program Co-Chair, QELS Conference (1997); Program Co-Chair, IQEC (1996); Vice-Chair, Gordon Conference on Nonlinear Optics and Lasers (1989); Co-Chair, OSA Topical Meeting on

Short Wavelength Coherent Radiation (1988).

Honors: Fellow of the American Physical Society; Fellow of the Optical Society of America; Distinguished Traveling Lecturer, APS Laser Science Topical Group (1992-93); Presidential Young Investigator Award of the NSF (1984-89).

Candidate's Statement: The Laser Science Division offers scientists a focus for a broad range of professional activities. The LSD can channel resources effectively, and coordinate related professional groups. I believe that I can serve the members of the DLS because of my experience in leadership roles at OSA, APS, IQEC, etc., my service as conference chair, program committee member, and editor, and my work as a scientist and educator. Though it's hard to know what important issues will arise in the coming years for the DLS, I expect we will need to continue to foster interactions among the universities, laboratories, and industry, and we will need to continue to seek ways to add value to the scientific enterprise through meetings, publications, and appropriate advocacy of scientific issues for government and the

public. Leadership of the DLS will require listening to the broad community of scientists using lasers and optics, and then engaging our individual members and the collective strength of the APS in useful activity.

Tony F. Heinz, Professor of Physics and Electrical Engineering, Columbia University, 1995 - ; Research Staff and Department Manager, IBM T. J. Watson Research Center, Yorktown Heights, NY, 1983-1995; PhD in Physics, University of California, Berkeley, 1982; BA in Physics, Stanford University, 1978.

Research interests: Ultrafast spectroscopy and nonlinear optics, particularly for probing surfaces, interfaces, and thin films. Recent activities include terahertz spectroscopy, ultrafast measurement of electrical transients, nonlinear optical investigations of interfaces, and femtosecond studies of surface dynamics.

Professional Activities: Program Committees: IQEC/QELS (1987-92, 1998); ILS/OSA Annual Meeting (1992-94, 1998); Program Chair: QELS, 1993 and OSA/LEOS Nonlinear Optics Conference, 2000; Advisory Board, Gordon Conference on Molecular Electronic Spectroscopy & Dynamics, 1996, 1999; Review Board, National Science and Engineering Council of Canada, 1991-94; Review Panel, Materials Science Program, US DOE, 1993; Member, Committee on Atomic, Molecular and Optical Physics (CAMOS), National Research Council, 1994-97; Chair, Nominating Committee, DLS of the APS, 1995; Chair, Joint Council on Quantum Electronics of APS/IEEE/OSA, 1995-98; Chair, Optical Sciences Division of the OSA, 1996-98; Liaison, OSA Technical Council and DLS, 1998-99; APS Isakson Prize Committee, 1999-2001; Associate Editor (1987 - 93) and Editor-in-Chief (1994-), Journal of the Optical Society of America (JOSA) B

Honors, Positions, Memberships: Honors and Awards: National Science Foundation Graduate Fellowship, 1978 - 81; IBM Graduate Fellowship, 1982-83; International Prize for Optics and Ernst Abbe Medal of the International Commission for Optics, 1995; Alexander von Humboldt Senior Scientist Research Award, Federal Republic Germany, 1996. Memberships: Fellow, American Physical Society; Fellow, Optical Society of America; American Chemical Society; Materials Research Society; IEEE

Candidate's Statement: I believe that the DLS has evolved into a unique and effective division of the APS that provides important ties between researchers with interests running from condensed-matter physics, atomic, molecular and optical physics to chemistry, materials science, and photonics. Several excellent programs have already been put in place by the DLS, such as the student travel grants and the distinguished traveling lecturer program. Building on the sound finances of the DLS, we can continue these successful programs and identify other distinctive activities that will serve our broad-based membership, particularly through new educational initiatives and efforts to increase the value of the DLS for student members. Additional opportunities for the DLS lie in improving our coordination with optics-oriented organizations outside the APS, notably with the OSA, IEEE/LEOS, and the SPIE, as well as with other professional societies, such as the ACS and MRS, in which DLS members participate. Close coordination with the OSA, in which I have had the pleasure of serving in several volunteer positions, is of special importance because of the co-location of the DLS-

sponsored ILS meeting and the OSA Annual meeting, as well as DLS participation in the IQEC/QELS

SECRETARY/TREASURER

Richard R. Freeman, Edward Teller Professor of Applied Science, and Chair, Department of Applied Science, University of California, Davis, Ph.D.--Harvard University, 1973, Lecturer in Physics, MIT, 1973-76, Bell Labs (researcher and Dept. Head), 1976-1996, Deputy Associate Director of Lasers, LLNL, 1996-98, Professor, Department of Applied Science, UCD, 1997-present, Chair, Department of Applied Science, UCD, 1998-present.

Research Interests: (1) High Intensity Laser Fields Interacting with Matter, (2) Interaction of Lasers in Relativistic Electron Beams, (3) Optical Designs, (4) Advanced Accelerator Concepts, (5) Plasma Spectroscopy. Over 175 Peer Reviewed Papers published in the literature.

Service: Chair of APS Division of Atomic, Molecular and Optical Physics, 1996, Chair of APS Division of Laser Science, 1994, Member of APS Executive Committee (at Large) 1990-93.

Honors: Fellow APS, Fellow OSA.

Henry van Driel, Professor of Physics, University of Toronto, Ph.D. 1975, B.Sc., 1970, University of Toronto.

Research interests: ultrafast and nonlinear optical phenomena in semiconductors; coherence control phenomena in solids; physics of lasers and ultrashort pulse parametric sources.

Other scientific activities: Topical Editor, JOSA B, 1993-1999; Member Program Committees: IQEC 1986,1988; 1994, Subcommittee chair, 1996, Program co-chair, 1998; QELS, 1989,1995,1997,1999, General co-chair, 2000; OSA annual mtg., 1993; International Council of Quantum Electronics, 1992-6; Commission on Quantum Electronics, International Union of Pure and Applied Physics, 1993- : vice-Chair, 1999-2002; Chair, Division of Optical Physics, Canadian Association of Physicists, 1992-93; Associate Director, Ontario Laser and Lightwave Research Center, 1988-94.

Honors, positions and memberships: J.S. Guggenheim Fellow (1986); Alexander Von Humboldt Senior Scientist Research Award (1991); Killam Fellow (1997-9), Fellow, Optical Society of America, 1989- present; Fellow, Royal Society of Canada, 1989-present; Postdoctoral fellow, University of Arizona, 1975-6. Visiting scientist: Harvard University, 1983; Max Planck Institut für Festkörperforschung, 1991-2; University of Amsterdam, 1999; member: APS, OSA, Canadian Association of Physicists, Royal Society of Canada.

EXECUTIVE COMMITTEE

Thomas F. Gallagher, Jesse W. Beams Professor of Physics, University of Virginia. Ph. D. 1971, Harvard University; A.M. 1968, Harvard University; A.B. 1966, Williams College.

Research interests: Interactions of highly excited atoms with strong microwave fields, interactions among highly excited atoms in dense cold samples, doubly excited atoms, frequency modulation spectroscopy.

Other scientific activities: Executive committee, DEAP, 1981-4; Committee on Line Spectra of the Elements, 1981-3; General Committee, ICPEAC, 1985-8; Associate Editor, Optics Letters, 1985-9; fellowship Committee, DAMOP, 1985-6, 1988-9; Divisional Associate Editor, Physical Review Letters, 1988-91; Program Committee, DAMOP, 1989-95; Meggers Award Committee 1991-2; Chairman, DAMOP, 1993-4; Schawlow Prize Committee, 1993-4; Chairman, ELICOLS, 1993; Chairman program subcommittee IQEC, 1993-4; Topical Editor, JOSAB, 1993-6; Program Committee, ICAP, 1993-6; Topical Editor, Physics Reports, 1996-; Chairman, nominating committee, DAMOP, 1998-00; Chairman SESAPS, 1999-00.

Honors, positions, and memberships: Fellow, APS; Fellow, OSA; Davisson-Germer Prize, 1996; Outstanding Scientist of Virginia, 1997; postdoctoral fellow, University of Utah, 1971-2; postdoctoral physicist, physicist, senior physicist, program manager, SRI International, 1972-84; visiting scientist CEN Saclay, 1977, University of Paris South, 1980; Laboratoire Aime Cotton, 1988, 1994, 1998, University of Freiburg, 1990.

Siu Au Lee, Professor of Physics, Colorado State University, Ph. D., Stanford Univ. 1976; B.S. Univ. Wisconsin-Madison

Research Interests: Laser manipulation of atoms for application to quantum wire and quantum dot structures; atom interferometry; precision laser tests of fundamental theories.

Other Scientific Activities: Executive Committee, Precision Measurements and Fundamental Constants Topical Group (PMFCTG) (1999-2002); Program Committee QELS (1998); NSF Committee of Visitors (1997) NRC CAMOS (1993-96).

Honors, Positions, Memberships: Fellow, American Physical Society Fellow, Optical Society of America Prof. of Physics (1993-present), Assoc. Prof. (1987-92), Asst.

Prof. (1982-86), Colorado State University

Senior Research Fellow, Caltech (1979-81)

Assistant Physicist, Argonne National Lab (1978-79) Postdoctoral Research Associate, JILA (1976-78) Member: APS (DAMOP, PMFCTG, DLS), OSA, Sigma Xi.

Mark G. Raizen, Associate Professor of Physics, The University of Texas at Austin. Ph.D. 1989, The University of Texas at Austin; B.Sc., 1980, Tel-Aviv University.

Research interests: Experimental atomic, molecular and optical physics. In particular, the use of atom optics to study problems in quantum chaos, condensed matter physics, and dissipative quantum dynamics.

Other scientific activities: Member, Technical Committee, IQEC (1994); Member, Max Born Award Committee, OSA (1998); Member, Book Committee, OSA (1997-1999); Member, Arthur L. Schawlow Prize Committee, APS (1998); Member, Editorial Board, Quantum and Semiclassical Optics; Member, Technical Committee, QELS (1999); Chairman, Max Born Award Committee, OSA (1999); Chairman, Arthur L. Schawlow Prize

Committee, APS (1999).

Honors, positions, memberships: I. I. Rabi Prize, APS (1999); APS Fellow (1997); NSF Young Investigator (1993-1998); ONR Young Investigator (1992-1995); Alfred P. Sloan Foundation Research Fellow (1992-1994); Sid W. Richardson Foundation Regents Chair Fellow (1991-1993; 1998-2000); National Research Council Postdoctoral Fellow (1989-1991); IBM Graduate Fellowship (1987-1988); University of Texas Graduate Fellowship (1986-1987). Member APS, OSA, AAAS.

John E. Thomas, Professor of Physics, Duke University. Ph. D. 1979, Massachusetts Institute of Technology, B. S. 1973, Massachusetts Institute of Technology.

Research Interests: Atom trapping, quantum noise, biomedical imaging.

Other Scientific Activities: Vice-Chair Davisson-Germer Prize Committee (1999); Member DLS Fellowship Committee (1999); Organizer, Symposium on Atom Imaging ILS/OSA (1997); Member, AMO Ph. D. Thesis Selection Committee (1994-1995); Organizer, Ninth International Conference on Laser Spectroscopy, (1989); Editor, Laser Spectroscopy IX.

Honors, positions, and memberships: Fellow, American Physical Society; NIST Precision Measurements Grant (1990-1993); S. Draper Career Development Chair (1980-1981); Hertz Foundation Predoctoral Fellow (1973-1978); Member APS, DAMOP, DLS, OSA.

DIVISIONAL APS COUNCILOR

W. Carl Lineberger, E. U. Condon Professor of Chemistry and Fellow of JILA, University of Colorado at Boulder, Ph.D. 1965, Georgia Institute of Technology.

Research Interests: Experimental chemical physics, laser spectroscopy, and ultrafast dynamics of molecular reactions. Current research activities include studies of molecular rearrangements following photoexcitation, photodetachment threshold phenomena, negative ion photoelectron spectroscopy, and solvation dynamics of molecular cluster ions.

APS Activities: Chair, Division of Chemical Physics (1982/83); Chair, Division of Atomic, Molecular and Optical Physics (1986/87); Chair, Topical Group on Laser Science (1994/95); and member of the Physics Policy Committee (95/98).

Honors, Positions, and Memberships: Co-Chair, Commission on Physical Sciences, Mathematics and Applications of the National Research Council; member, National Academy of Sciences; Fellow of the American Academy of Arts and Sciences, the American Physical

Society and the American Association for the Advancement of Science; recipient. H. P. Broida Prize and the Earle K. Plyler Prize of the American Physical Society, William F. Meggers Award of the Optical Society of America, and the Irvin B. Langmuir Prize of the American Chemical Society.

Candidate's Statement:

The Division of Laser Science has been a wonderfully successful experiment in collaboration between physicists, chemists, and optical scientists. It has been exceptionally successful in implementing innovative scientific, education and outreach activities. Our annual meeting, the Interdisciplinary Laser Science (ILS) Conference, has been held in conjunction with OSA, providing us with important broad connections with minor participant (albeit a scientifically very important one) in this process. I believe it is essential to maintain a vibrant DLS annual meeting that serves its membership through multiple symposia and many poster presentations. Significant incentives for student participation in the meeting must be maintained. As our APS Counselor, I will work closely with our DLS leadership to ensure that the interests of DLS are well articulated to APS, and that the truly wonderful successes of DLS are not jeopardized in the OSA restructuring.

William C. Stwalley, Professor of Physics and of Chemistry, University of Connecticut, Ph.D. 1969, Harvard University; B.S. 1964 California Institute of Technology.

Research Interests: Atom, molecule and photon interactions, particularly few atom systems where these interactions can be determined from spectroscopy, collisions, and theory. Of particular interest is the low temperature quantum regime where atom cooling and trapping is employed and exotic phenomena such as Bose-Einstein condensation and atom and molecule "lasers" occur.

Scientific Activities: APS: DLS (also TGLS): Co-founder, Chair, Admin. Vice Chair of the International/Interdisciplinary Laser Science Conference (TGLS/DLS Annual Meeting) (1984-91); TGLS Steering Committee (1985-86, 1987-92); APS Rep. on Joint Council on Quantum Electronics (also ICQE) (1988-90, 1993-96); Program Committee QELS (1991-92, 1998-99); Schawlow Prize Committee (1998-2000); DCP: Secretary/Treasurer (1984-90); DAMOP: Program Committees (1990-92); Organizing Committee for DAMOP 2000 (1998-2000); Other APS: Organizing Committee for 1997 Congressional Reception; Selected Other: Vice-Chair/Chair, Gordon Conf. on Atomic and Molecular Interactions (1976-80), Co-Chair, Gordon Conf. on Nonlinear Optics and Lasers (1977-78), Exec. Comm., Div. Of Phys. Chem., Am. Chem. Soc. (1981-83), ARO Chem. Adv. Comm. (1981-84), Ed. Adv. Brd., J. Molec. Spectrosc. (1982-87), AFOSR Chem. Eval. Panel (1983-86), Editor, Laser Chem. (1985-90), Chair Airforce Panel on High Energy Density Mtls. (1985-92), Ed. Adv. Brd., Chem. Phys. Lett. (1986-98), CAMOS, Natl. Res. Council (1979-82, 1990-91, 1992-96 [chair 1993-95]), Intl. Assessor, NSERC (Canada) (1997-98).

Professional Affiliations: Fellow, American Physical Society; Fellow, Optical Society of America; American Chemical Society; American Association for the Advancement of Science; Connecticut Academy of Science and Engineering; Connecticut Academy of Arts and

Sciences. Honors and Awards: A.P. Sloan Fellow (1982), Visiting Lecturer of the Chinese Academy of Sciences (1986), George Glocker Professor of the Physical Sciences, University of Iowa (1988-93), Visiting Lecturer of the National Science Council of Taiwan (1989, 1999), William F. Meggers Award for Spectroscopy of the Optical Society of America (1988), Chancellor's Research Excellence Award, University of Connecticut (1999).

Candidate's Statement: The Division of Laser Science is the only division of APS with this word science (as opposed to Physics) in its title. This is because from the very inception of the Topical Group (now Division) of Laser Science and its annual meeting, the Interdisciplinary Laser Science Conference, it was recognized that laser science is inherently interdisciplinary, with many disciplines outside the traditional boundaries of Physics providing important contributions and applications (e.g. electrical and mechanical engineering and chemistry). Simultaneously there are strong ties with other divisions in APS (e.g. DAMOP, DCMP, DCP, DMP) and to other societies (e.g. OSA, IEEE). DLS thus serves a very important linking and bridging role which I would strive to maintain and enhance, primarily through the annual ILS and QELS meetings, and through the special DLS-sponsored Student Travel Grant, Student Summer Research Grant and Distinguished Traveling Lecturer Programs. I would seek to persuade the APS Council of the mission of our interdisciplinary philosophy and the vigor of our scientific enterprise, I would also actively represent the interests of the laser science community on the APS Council.

The 1999 DLS Nominating Committee was Dan Grischkowsky (Chair), Bob Field, Phil Gould, and Hal Metcalf. Their efforts are greatly appreciated!

Ballots must be received by Win Smith no later than September 15, 1999.

DLS EXECUTIVE COMMITTEE

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