

**ERIC DUFRESNE**  
Department of Physics  
University of Michigan  
Mailing address: MHATT-CAT, APS Sector 7  
Argonne National Lab Bldg 432 Rm D007  
9700 Sth Cass Ave  
Argonne IL 60439  
(630) 252-0274 fax: (630) 252-0279  
email: dufresne@umich.edu  
Citizenship: Canadian

## EDUCATION

- 1995 Ph.D. (Physics), McGill University, Montréal, Canada. (Dean's Honour List)  
*"Intensity fluctuation spectroscopy with coherent X-rays."*  
Supervisor: Professor Mark Sutton.
- 1990 M.Sc. (Physics), University of Waterloo, Waterloo, Ontario, Canada.  
*"A study of high purity Cd<sub>x</sub>Se<sub>1-x</sub> vacuum deposited thin films."*  
Supervisor: Professor D.E. Brodie.
- 1987 B.Sc. (Physique), Université Laval, Ste-Foy, Canada.

## ACADEMIC AWARDS

- 1996-97 Natural Science and Engineering Research Council of Canada (NSERC) postdoctoral fellowship.
- 1992-93 Fonds aux Chercheurs et à l'Aide à la Recherche du Québec (FCAR) doctoral fellowship and McGill University Carl Reinhart Fellow.
- 1990-92 NSERC doctoral scholarship.
- 1988-90 NSERC master's scholarship and University of Waterloo fellowship.
- 1987-86 NSERC summer student scholarships, at the University of Toronto.

## PROFESSIONAL MEMBERSHIP AND SERVICE

- 1989- Member of the Canadian Association of Physicists
- 1991- Member of the Canadian Institute for Synchrotron Radiation
- 1991- Member of the American Physical Society
- 1989- Member of the Materials Research Society
- 1999- Member of the American Association for the Advancement of Science
- 2002- Co-chair, APS Technical Working Group
- 2003- Chair, APS General Users Review Panel on Instrumentation

## WORK AND TEACHING EXPERIENCE

- 1998- **Senior Research Associate in the Physical Sciences II, Department of Physics, University of Michigan.** As a beamline Scientist for the University of Michigan, Howard University, Lucent Technologies-Bell Labs Collaborative Access Team (MHATT-CAT) at the Advanced Photon Source (APS), my task is to support the operation of the MHATT-CAT insertion device beam line, to participate in the scientific and professional activities of the CAT, to help users of this facility to perform their experiments, and to pursue an active research program focused on coherent and incoherent time-resolved X-ray scattering techniques. Over the last five years while stationed at the APS, I have become a critical element in the operation of a state of the art synchrotron radiation research facility. In 2001, I was promoted to the position of Sector Manager. My responsibilities include the local administration of our beamline schedule, budget, and the supervision of four beamline scientists. I am also the Safety Coordinator of sector 7, a role at Argonne which carries significant responsibilities and administrative duties. Being a resident of the APS, I also serve on many local committees and I am in regular contact with people from the various APS divisions. I currently co-chair the APS Technical Working Group, organizing technically oriented monthly meetings for beamline designers, and scientists. I also chair the APS General User Proposal Review Panel on Instrumentation.
- 1998      **Discussion Instructor at the Department of Physics, University of Michigan.** I taught three sections of Introduction to Electromagnetism. The students teaching evaluation is available upon request.
- 1996-98    **Postdoctoral Fellow at the Department of Physics of the University of Michigan.**
- 1991-95    **Teaching Assistant, Department of Physics, McGill University.** I marked assignments for 3rd year Electromagnetism, Biophysics and 2nd year Thermodynamics.
- 1994       **Assistant System Manager** of the condensed matter physics computer system.
- 1988-90    **Teaching Assistant, Department of Physics, University of Waterloo.** I marked first year physics, 4th year optics and graduate quantum mechanics.
- 1988       **Instructor, Extension de l'enseignement, Université Laval, Ste-Foy, Québec.** I taught three first year physics courses: mechanics, electromagnetism and optics.
- 1987-88    **Substitute teacher, Ecole Polyvalente LaCamaradière, Québec, Québec.**

## TALKS and CONFERENCE PRESENTATIONS

- Aug. 2003    Two posters presented at SRI 2003, the Synchrotron Radiation Instrumentation Conference in San Francisco, CA.
- Jun. 2003     Invited talk, APS,ESRF,Spring-8 Workshop, ANL, IL
- May. 2003    Univ. of Michigan, CUOS, Ann Arbor MI.
- Mar. 2003    APS Technical Working Group, Chicago IL.
- Dec. 2002    Invited talk, INRS-Energie, Montreal, Canada
- Sept. 2002    APS Technical Working Group, Chicago IL.
- Aug. 2002    APS Technical Working Group, Chicago IL.

- Feb. 2002   APS Technical Working Group, Chicago IL.
- Jan. 2002   APS User Seminar, Chicago, IL.
- Sep. 2001   APS Technical Working Group, Chicago IL.
- Aug. 2001   Two posters presented at SRI 2001, the Synchrotron Radiation Instrumentation Conference in Madison, WI.
- Mar. 2001   APS Technical Working Group, Chicago IL.
- Oct. 2000   APS Technical Working Group, Chicago IL.
- June 2000   Talk at the Canadian Association of Physicist Conference, Toronto, ON, Canada.
- Oct. 1999   Poster presented at SRI 99, the Synchrotron Radiation Instrumentation Conference at SSRL, Palo Alto, CA.
- Aug. 1999   Poster presented at X99, the 1999 X-ray Absorption and Spectroscopy Conference, Chicago, IL.
- June 1998   Talk at the Canadian Association of Physicist Conference, Waterloo, ON, Canada.
- May 1997   Invited talk at the NSLS Annual Users' Meeting, Workshop on XPCS, Upton, NY.
- Nov. 1996   Invited talk, Department of Physics, Oakland University, Rochester, MI.
- Jan. 1996   NSLS lunch time seminar, Brookhaven National Labs, Upton, NY.
- June 1995   Canadian Association of Physicist Conference, Québec, PQ, Canada.
- May 1995   Department of Physics, University of Michigan, Ann Arbor MI.
- May 1995   Department of Physics, Brookhaven National Labs, Upton, NY.
- June 1990   Poster presented at the Canadian Association of Physicist Conference, Guelph ON, Canada.

## REFERENCES

Professor Mark Sutton  
 Department of Physics  
 McGill University  
 Montréal, Canada  
 H3A 2T8  
 (514) 398-6523 Fax:6526

Professor Roy Clarke  
 Department of Physics  
 The University of Michigan  
 Ann Arbor MI 48109-1120  
 (734)764-4466 fax:2193

Dr. G. Brian Stephenson  
 Material Science Division Bldg. 223  
 Argonne National Labs  
 9700 S. Cass Ave.  
 Argonne, IL 60439-4845  
 (630)252-3214 fax:7777

## PUBLICATIONS

### Refereed Articles

- B. W. Adams and E.M. Dufresne, “*Parametric Down Conversion of X-rays*”, Submitted to Phys. Rev. Lett, Jan 2004.
- D.-H. Do, P.G. Evans, E.D. Isaacs, D. M. Kim, C.-B. Eom, and E.M Dufresne, “*Structural visualization of two electric field regimes of polarization fatigue in epitaxial ferroelectric oxide devices*”, Accepted for publication in Nature Materials, Feb 2004.
- N.R. Pereira, E.M. Dufresne, R. Clarke, and D.A. Arms, “*Parabolic lithium refractive optics for X-rays*”, Rev. Sci. Instrum. **75**, 37-41 (2004).
- M.F. DeCamp, D.A. Reis, A. Cavalieri, P. H. Bucksbaum, R. Clarke, R. Merlin, E.M. Dufresne, D.A. Arms, A.M. Lindenberg, A.G. Macphee, Z. Chang, B. Lings, J.S. Wark, S. Fahy, “*Supersonic strain front driven by a dense electron-hole plasma.*”, Phys. Rev. Lett. **91** 165502-1 (2003).
- S. Yang, Y. Horibe, C.H. Chen, P. Mirau, T. Tatry, P. Evans, J. Grazul, E.M. Dufresne, “*Ordered Hydrophobic Organosilicates Tempered by Block Copolymers*”, Chem. Mater. Vol. 14, 5173-5178 (2002).
- B.W. Adams, M.F. DeCamp, E.M. Dufresne and D.A. Reis, *Picosecond Laser-Pump, X-ray Probe Spectroscopy of GaAs*, Rev. Sci. Instrum Vol. 73, December, p4150 (2002).
- Y. Yacoby, M. Sowwan, E. Stern, J. Cross, D. Brewe, R. Pindak, J. Pitney, E. M. Dufresne and R. Clarke, “*Direct determination of epitaxial interface structure in  $Gd_2O_3$  passivation of GaAs*”, Nature Materials Vol. 1 no. 2, p99-101 (2002).
- E. Dufresne, T. Nurushov, R. Clarke, and S.B. Dierker. “*SAXS Study of Concentration Fluctuations in the Binary Mixture Hexane-Nitrobenzene*”, Phys. Rev. E., Vol. 65, June 21, 065107 (2002).
- E.M.Dufresne, D.A. Arms, R. Clarke, S.B. Dierker, N.R. Pereira, and D. Foster, “*Lithium metal for x-ray refractive optics*”, Appl. Phys. Lett., **79** no 25 p4085-7 (2001).
- M.F. DeCamp, D. A. Reis, P. H. Bucksbaum, B. Adams, J.M. Caraher, R. Clarke, C.W.S. Conover, E.M. Dufresne, R. Merlin, V. Stoika, and J.K. Wahlstrand, “*Coherent Control of Pulsed X-ray Beams*”, Nature **413** p825 October 25 2001.
- D. A. Reis, M. DeCamp, P. H. Bucksbaum, R. Clarke, E. Dufresne, M. Hertlein, R. Merlin, R. Falcone, H. Kapteyn, M. Murnane, J. Larsson, Th. Missalla, J. Wark, “*Probing impulsive strain propagation with x-ray pulses*”, Phys. Rev. Lett., **86** 3072 (2001).
- E. Dufresne, R. Brüning, M. Sutton, G.B. Stephenson and B. Rodricks, “*A statistical technique for characterizing X-ray position-sensitive detectors.*” Nuclear Instruments and Methods A **364** (1995) 380-393.
- S. Brauer, G.B. Stephenson, M. Sutton, R. Brüning, E. Dufresne, S.G.J. Mochrie, G. Grübel, J. Als-Nielsen and D.L. Abernathy, “*X-ray Intensity Fluctuation Spectroscopy Observations of Critical Dynamics in  $Fe_3Al$ .*” Physical Review Letters **74** (1995) 2010-2013.
- M. Sutton, R. Brüning and E. Dufresne, “*Longitudinal diffraction scans using a position sensitive detector.*” Nuclear Instruments and Methods in Physics Research A **355** (1995) 654-659.

- S.W. Kycia, A.I. Goldman, T.A. Lograsso, D.W. Delaney, D. Black, M. Sutton, E. Dufresne, R. Brüning and B. Rodricks, "Dynamical x-ray diffraction from an icosahedral quasi-crystal." Physical Review B **48** (1993) 3544-3547.
- E. Dufresne and D.E. Brodie, "A study of high-purity  $Cd_xSe_{1-x}$  vacuum deposited thin films." Canadian Journal of Physics **69** (1991) 124.

### Book Chapters

- B. W. Adams, P.H. Bucksbaum, M.F. DeCamp, E.M. Dufresne, M.E. Garcia, H.O. Jeschke, A. Lindenberg, D.A. Reis, P. Sondhauss, J.S. Wark, and P. Zambianchi, *Nonlinear Optics, Quantum Optics, and Ultrafast Phenomena with X-ray*, Kluwer Academics Publisher, ISBN 1-4020-7475-1 (2003).

### Refereed Conference Proceedings

- E.M. Dufresne, J.A. Guzman, D.A. Arms, D.A. Walko, "Recent stabilization efforts of the 7ID cryogenically cooled monochromator at the Advanced Photon Source", presented at the SRI 2003 International Conference in August 2003 in San Francisco, proceedings to appear in AIP Conference Proceedings vol. 705, April 6, (2004).
- E.M. Dufresne, N.R. Pereira, D.A. Arms, "Lithium based Multi-prism X-ray Refractive Lenses", presented at the SRI 2003 International Conference in August 2003 in San Francisco, proceedings to appear in AIP Conference Proceedings vol. 705, April 6, (2004).
- D.-H. Do, D.M. Kim, C.-H. Eom, E.M. Dufresne, E.D. Isaacs, and P.G. Evans, *Synchrotron X-ray Microdiffraction Images of Polarization Switching in PZT Capacitors with SrRuO<sub>3</sub> Top Electrodes*, MRS Proceedings, Fall 2003 meeting Symposium C, Paper C6.4 (2004) (in print).
- B. Hou, J. Nees, A. Mordovaniki, E. Power, G. Mourou, E.M. Dufresne, R. Clarke, *Coherence of hard x-rays in the relativistic  $\lambda^3$  regime*", to be presented at the OSA Topical Meeting on Applications of High Field and Short Wavelength Sources X, Biarritz, France in October 2003. Proceedings to Appear in Applied Physics B.
- Y.S. Chu, A. Tkachuk, S. Vogt, P. Ilinski, D.A. Walko, D.C. Mancini, E.M. Dufresne, L. He, and F. Tsui, "Structural Investigation of CoMnGe Combinatorial Epitaxial Thin Films Using Microfocused Synchrotron X-ray", Submitted to the Proceedings of the Second US-Japan Workshop on Combinatorial Material Science and Technology, Applied Surface Science Feb. 15, 214-219 (2004).
- C. Morawe, Jean-Christophe Peffen, E.M. Dufresne, Y.S. Chu, and A.T. Macrander, *Double gradient multilayers for broadband focusing*, Proceedings of the 2003 SPIE Conference in San Diego, SPIE Vol 5195, p1-11 December 2003.
- Y. Yacoby, M. Sowwan, E. Stern, J. Cross, D. Brewe, R. Pindak, J. Pitney, E.B. Dufresne, and R. Clarke, *Direct determination of epitaxial film and interface structure: GD<sub>2</sub>O<sub>3</sub> on GaAs.*, published in the Proceedings of the Seventh International Conference on Surface X-ray and Neutron Scattering, Sept. 23-27 2002 in Lake Tahoe, Ed. J.F. Ankner and S. Brennan, Physica B **336** 39-45 (2003).
- E.O. Baronova, L. Ognev, N.R. Pereira, S.B. Dierker, E. Dufresne, and D.A. Arms, "Refractive and reflective optics for x-rays.", published in Synchrotron Radiation Source: Perspectives of Research: Proceedings of the Second International Workshop", April 2-6, 2001 in Dubna Russia, Publisher JINR, p111-115 (2002).

- W.F. Schlatter, C. Cionca, S.S. Paruchuri, J.B. Cunningham, E. Dufresne, S.B. Dierker, D. Arms, R. Clarke, J.M. Ginder, and M.E. Nichols, “*The Dynamics of Magnetorheological elastomers studied by synchrotron radiation speckle analysis*”, in the Proceedings of the Eight International Conference on Electrorheological Fluids and Magnetorheological Suspensions in Nice, France, Summer of 2001. Published in the International Journal of Modern Physics B, Vol. 16, Nos 17&18 (2002) p2426-2432.
- D.A. Arms, E.M. Dufresne, R. Clarke, S.B. Dierker, N.R. Pereira, and D. Foster, “*Refractive optics using lithium metal*”, In the Proceedings of the SRI 2001 Conference, Rev. Sci. Instrum. **73**, p1492-1494 (2002).
- E.M. Dufresne, D.A. Arms, S.B. Dierker, R. Clarke, Y. Yacoby, J. Pitney, B. Macharrie, R. Pindak, “*Design and Performance of a Stable First Crystal Mount for a Cryogenically Cooled Si Monochromator at the APS*”, in the Proceedings of the SRI 2001 Conference, Rev. Sci. Instrum. **73**, p1511-1513 (2002).
- D.A. Reis, M.F. DeCamp, P.H. Bucksbaum, R. Clarke, E.Dufresne, and R. Merlin “*Picosecond time-resolved x-ray diffraction probe of coherent lattice dynamics (abstract)(invited)*”, in the Proceedings of the SRI 2001 Conference, Rev. Sci. Instrum. **73**, p1361 (2002).
- N.R. Pereira, D.A. Arms, R. Clarke, S.B. Dierker, E.M. Dufresne, and D. Foster, “*Lithium metal for x-ray refractive optics*”, in the Proceedings of the SPIE Conference, San Diego CA, July 2001, Vol **4502** p173-183 December 2001.
- E. Dufresne, T. Sanchez, T. Nurushev, R. Clarke and S.B. Dierker, “*A Fixed Angle Double Mirror Filter for Preparing a Pink Undulator Beam at the Advanced Photon Source*”, in Synchrotron Radiation Instrumentation SRI 99: Eleventh US National Conference, Stanford, CA 1999, AIP Conference Proceedings 521, Melville New York, p238-241, 2000.
- L.E. Berman, Z. Yin, S.B. Dierker, E. Dufresne, S.G.J. Mochrie, O.K.C. Tsui, S.K. Burley, F. Shu, X. Xie, M.S. Capel, and R.M. Sweet, “*Performance of the Double Multilayer Monochromator On the NSLS Wiggler Beam Line X25.*” in Synchrotron Radiation Instrumentation: Tenth US National Conference, AIP Conference Proceedings 417, edited by E. Fontes (American Institute of Physics, College Park, Md, 1997), pp. 71-79.
- Z. Yin, L. Berman, S. Dierker, E. Dufresne and D.P. Siddons, “*A Simple X-Ray Focusing Mirror Using Float Glass.*” SPIE Proceedings **2856** (1996) 307-313.

### High visibility Activity Reports

- E.M. Dufresne, T. Nurushev, R. Clarke, S.B. Dierker, ”*A Study of Concentration Fluctuations in the Binary Alloy Mixture Hexane-Nitrobenzene with X-ray Photon Correlation Spectroscopy*”, APS Forefront 1, ANL/APS/TB-42 p74 (2001).
- D.A. Reis, M.F. DeCamp, P.H. Bucksbaum, R. Clarke, E. Dufresne, M. Hertlein, R. Merlin, ”*Picosecond Dynamics Probed by X-ray Diffraction*”, APS Forefront 1, ANL/APS/TB-42 p134 (2001).

### Annual Reports

- B. W. Adams, E.M. Dufresne, *Edge Enhancement in X-ray Parametric Down Conversion*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).

- S. Haldar, E.M. Dufresne, A.E. Mijovilovich, A.J. Torres, J. E. Penner-Hahn, *Sensitivity determinations for Capillary Electrophoresis coupled with X-ray Fluorescence*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- R. Clarke, W.F. Schlotter, C. Cionca, J.B. Cunningham, E. Dufresne, D. Arms, J.M. Ginder, and M.E. Nichols, *Nanorheology of MR Elastomer Studied by Dynamic Speckle*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- D.A. Reis, D.A. Arms, P.H. Bucksbaum, A. Cavalieri, R. Clarke, M.F. DeCamp, E.M. Dufresne, R. Merlin, A.M. Lindenberg, A.G. MacPhee, Z. Chang, B. Lings, J.S. Wark, and S. Fahy, *Bulk Ambipolar Diffusion Measured by Ultrafast X-ray Diffraction*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- L. Young, R.W. Dunford, D.L. Ederer, E.P. Kramer, B. Krassig, S.H. Southworth, E.C. Landahl, D. Reis, E. Dufresne, *X-ray Photoionization in the Presence of Strong-Optical Fields*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- C. Morawe, J.-C. Peffen, E.M. Dufresne, Y.S. Chu, A.T. Macrander, *Broadband focusing with double gradient multilayers*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- N.R. Pereira, E.M. Dufresne, D.A. Arms, R. Clarke, *Multiprism Lithium Refractive Optics for X-rays*, to appear in the Advanced Photon Source Activity Report 2002, ANL-03/21 (2004).
- B.W. Adams, E.M. Dufresne, D. A. Walko, *The X-ray Diffractive Casimir Effect*, Advanced Photon Source Activity Report 2001, ANL-02/06, December 2002.
- M.F. DeCamp, D.A. Reis, P.H. Bucksbaum, R. Clarke, R. Merlin, A. Cavalieri, E.M. Dufresne, D.A. Arms, A. Lindenberg, A MacPhee, Z. Chang, *Picosecond Switching of X-rays using the Boorman Effect*, Advanced Photon Source Activity Report 2001, ANL-02/06, December 2002.
- N.R. Pereira, E.M. Dufresne, D.A. Arms, R. Clarke, S. B. Dierker, *Lithium x-ray Refractive Lenses*, Advanced Photon Source Activity Report 2001, ANL-02/06, December 2002.
- S. Yang, P.G. Evans, E.M. Dufresne, *Small angle scattering studies of ordered organosilicate composites*, Advanced Photon Source Activity Report 2001, ANL-02/06, December 2002.
- P.G. Evans, E.D. Isaacs, G.R. Kowach, E.M. Dufresne, A. Pignolet, H.N. Lee, *Resonant microdiffraction imaging of polarization switching in ferroelectric SrBi<sub>2</sub>Ta<sub>2</sub>O<sub>9</sub>*, Advanced Photon Source Activity Report 2001 ANL-02/06, December 2002.
- E.M. Dufresne, S. B. Dierker, “*A White and Monochromatic X-ray Beam Imaging System*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- E.M. Dufresne, S. B. Dierker, N.R. Pereira, “*Li-based Compound X-ray Refractive Lenses*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- T. Nurushhev, E.M. Dufresne, S. B. Dierker, “*Studies of Dynamic Critical Behavior of Polymer Mixtures Using X-ray Photon Correlation Spectroscopy*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- R. Clarke, W.F. Schlotter, C. Cionca, S.S. Paruchuri, J.B. Cunningham, E.M. Dufresne, S.B. Dierker, D.A. Arms, “*Dynamics of Nanomagnetic MR Elastomers*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).

- D.A. Reis, M.F. DeCamp, P.H. Bucksbaum, J.M. Caraher, R. Clarke, E.M. Dufresne, R. Merlin, V.A. Stoica, J. Wahlstrand, C.W.S. Conover, Bernhard Adams, “*Dynamical Diffraction Effects and the Ultrafast Modulation of X-rays*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- Y. Yacoby, R. Pindak, J. Pitney, R. MacHarrie, E.M. Dufresne, R. Clarke, E. Stern, J. Cross, “*Bragg-rod Diffraction Studies of the Gd<sub>2</sub>O<sub>3</sub>-GaAs Interface*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- P.G. Evans, E.D. Isaacs, E.M. Dufresne, “*Visualization of Domain Inverted Regions in Periodically Poled Lithium Niobate Using X-ray Microdiffraction*”, in the Advanced Photon Source Activity Report 2000 (ANL-01/03).
- E. Dufresne, T. Nurushev, R. Clarke, and S.B. Dierker, “*A Study of Concentration Fluctuations in the Binary Mixture Hexane-Nitrobenzene with X-ray Photon Correlation Spectroscopy*”, 1995-1999 APS User Activity Report, Volume 1, ANL-00/5, printed January 2001 page 243.
- D.A. Reis, P.H. Bucksbaum, R. Clarke, M. DeCamp, E. Dufresne, M. Hertlein, R. Merlin, and E. Williams, “*Picosecond Time-resolved X-ray Diffraction at the APS Sector 7 (MHATT-CAT)*” 1995-1999 APS User Activity Report, Volume 1, ANL-00/5, printed January 2001 page 306.
- T. Nurushev, E. Dufresne and S.B. Dierker, “*Radiation Damage Effect in Ps/Pbd Polymer Mixtures*” 1995-1999 APS User Activity Report, Volume 1, ANL-00/5, printed January 2001 page 550.
- E. Dufresne, T. Sanchez, T. Nurushev, and S.B. Dierker, “*A Fixed Angle Double Mirror Filter for Producing a Pink Undulator Beam at the APS*”, 1995-1999 APS User Activity Report, Volume 1, ANL-00/5, January 2001 page 349.
- W. Schlotter, S. Parachuri, P. Erncarnacion, E. Dufresne, S.B. Dierker and R. Clarke, “*Speckle Analysis of Relaxation Dynamics in Magnetorheological Elastomer*”, 1995-1999 APS User Activity Report, Volume 1, ANL-00/5, January 2001 page 490.
- E. Dufresne, S.B. Dierker, L.E. Berman and Z. Yin, “*Generation of Coherent Soft X-rays with the Prototype Small Gap Undulator.*” National Synchrotron Light Source (NSLS) Activity Report, BNL 52517 (1996) B-125.
- Z. Yin, L. Berman, S. Dierker, E. Dufresne and D.P. Siddons, “*A Simple X-Ray Focusing Mirror Using Float Glass.*” NSLS 1996 Activity Report, BNL 52517 (1996) B-126.
- E. Dufresne, R. Brüning, M. Sutton, G.B. Stephenson, B. Rodricks, C. Thompson and S.E. Nagler, “*Intensity Fluctuation Spectroscopy using coherent X-rays.*” NSLS Annual Report BNL 52371 (1992) 381.
- M. Sutton, E. Dufresne, S.G.J. Mochrie, L.E. Berman, G.A. Held and G.B. Stephenson, “*Intensity Fluctuation Spectroscopy using coherent X-rays.*” NSLS Annual Report BNL 52317 (1991) 293.