

KYLE FORINASH
Curriculum Vitae, February 2009

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EDUCATION

- B. S. (Physics) University of Georgia, 1975
 - Ph. D. (Physics) Clemson University, 1983
- Dissertation topic: A Study of Non-perturbative Effects in Electron Positron Annihilation into Mesons

EMPLOYMENT BACKGROUND

- 1985 to '92 (Assistant), '92 to '96 (Associate), '96 to present (Professor), Indiana University Southeast
- 1985 to present - Coordinator and department chair of the physics department at I.U.S.
- Summer 1989 - Collaborator (Visiting Scientist) Los Alamos National Laboratory
- 1983 to 1985 - Visiting Assistant Professor, East Tennessee State University
- 1978 to 1983 - Teaching Assistant, Clemson University
- 1975 to 1977 - High school physics teacher with the Peace Corps, Ghana, West Africa

TEACHING EXPERIENCE

- Major adviser of a Master's degree candidate in mathematics in a calculation of the non-perturbative effects in nucleon scattering (E.T.S.U.)
- Committee member for two Master of Liberal Studies students (I.U.S.)
- Astronomy both as a lecture class and as a television correspondence course using a series of packaged films broadcast over local public television (E.T.S.U.)
- Assistant in administration of personalized self-instruction independent study courses in solid state, optical and nuclear physics (Clemson U.)
- Modern physics with laboratory including computer interfaced experiments (I.U.S.)
- Introductory physics, both calculus based and algebra based, author of laboratory exercises (I.U.S.)
- Physical science for non-science majors (E.T.S.U.)
- Physics for Poets- conceptual physics for non-science majors (I.U.S.)
- Physics and English in a college preparatory high school while in the Peace Corps in West Africa (set up student laboratory so that the school could offer national exit exam in physics and biology for the first time)
- History and Philosophy of Science (taught jointly with a philosopher at I.U.S.)
- Environmental Physics as a distance learning course using two way video (I.U.S.)
- Materiales Interactivos, Simulaciones y Internet para la Enseñanza de la Física (<http://physics.ius.edu/~kyle/Argentina/Internet.htm>) a graduate workshop taught in Spanish at the Departamento de Formación Docente de la Facultad de Ciencias Exactas de la Unicen (Universidad Nacional del Centro de la Provincial de Buenos Aires, Tandil, Argentina).

TEACHING OUTSIDE THE CLASSROOM AND OTHER CREATIVE WORK

1. Author of a proposal for a B.A. degree with a major in physics at I.U.S. which was approved by the Indiana Higher Education Commission
2. Co- director for the Southeastern Indiana Science and Engineering Fair. (1986, 1987, 1988, 1989)
3. Judge for the Louisville, KY Regional Science Fair. (1987 and 1991)
4. Panelist on a discussion at I.U.S. of the scientists role in U.S. - Soviet relations. (1987)
5. Consulting scientist to the Louisville Astronomical Society's exhibit at the Louisville Museum of History and Science. (1988)
6. Chairman of the physics section of the Indiana Academy of Science. (1991)
7. Science Question Reader for the junior division of the Hoosier Academic Super Bowl. (1989, 1990)
8. Panelist on a discussion for the honors program at the University of Louisville titled 'Stimulating the Learning Process'. (1990)
9. Consulting scientist and expert witness to the Prosecuting Attorney's office, 52nd Judicial District in a murder trial. (1990)
10. Reader/Judge for the I.U.S. spring 1990 interdisciplinary W131 Writing Excellence Competition.
11. I.U.S. Lecture Series coordinator for the workshop and Master of Liberal Studies course titled: The Impact of Technology on the Environment, Fall 1992.

12. Invited participant in the 4th International Conference on Modern Teaching of Physics in Badajoz, Spain, July 1992.
13. Consultant and presenter; National Science Foundation sponsored high school science teacher workshop at East Tennessee State University in Johnson City, TN, June 15-19, 1992.
14. Co-author of the Honors Research Minor degree at the I.U.S. campus. (1994)
15. Implementation of a World Wide Web server (<http://Physics.ius.edu/>) with physics course information for the I.U.S. campus. (1995)
16. Participant in the Electronic Emissary Project by interacting with a middle school class, answering questions weekly via email from the students and teacher. (1996)
17. Creation of interactive web pages incorporating Applets (written by Wolfgang Christian at Davidson College) by using JavaScript: <http://Physics.ius.edu/>. The site has been linked from the Davidson College main site and also from the Physicists Web List supported by Microsoft (2000).
18. Creation of a self grading math quiz/review on the web for the first semester algebra based physics course. Students take the quiz on-line from the physics web page to determine their level of math preparation for the first semester physics course (2000).
19. Member of an ad hoc committee to set middle and secondary education science curriculum which created a set of guidelines and requirements for secondary education students who wish to certify at the state level to teach sciences. (2001)
20. Member of the organizing committee for the First Year Experience courses at I.U.S., required of all first year students starting in the fall of 2002. The courses are content courses with additional time added to the course for the purpose of introducing students to the university and academic life. Member of the ad hoc committee for the proposal of a First Year Experience, the ad hoc committee for the selection of a First Year Experience director, and the First Year Experience advisory panel which plans the retreats for faculty who will teach the seminars and manages the seminars (2001-2005).
21. 2002 Science Olympiad regional coordinator for physics events.
22. Mentor volunteer in the Peer Mentor Program at I.U.S. to aid other faculty in improving their teaching. (2001-2002).
23. Web projects can be seen at: <http://physics.ius.edu/~kyle/Forinash.html>

LANGUAGES

- French (reading comprehension only)
- Spanish (level B21, Referencia para las Lenguas de Consejo de Europa)

AFFILIATIONS

- American Physical Society (<http://www.aps.org/>)
- American Association of Physics Teachers (<http://www.aapt.org/>)
- Indiana Academy of Science (<http://www.statelib.lib.in.us/WWW/ias/ias.HTML>)
- Sigma Xi (The Scientific Research Society; <http://www.sigmaxi.org>)
- Union of Concerned Scientists (<http://www.ucsusa.org>)

GRANTS, AWARDS AND FELLOWSHIPS

1. I.U.S. Summer Faculty Fellowship (1986, 1989, 1993, 1997, 1999, 2005).
2. I.U.S. Sabbatical leave (Spring 1993, Spring 1999, academic year 2006-2007)
3. I.U.S. Grant in Aid for the Improvement of Learning (1987, 1988, 1991, 1994, 2000, 2001).
4. National Science Foundation; College Science Instrumentation Program Grant USE-8851189 with Skip Cady and Ray Wisman -\$40,000 (1988).
5. Selected for the July 1992 Indiana University Faculty Colloquium on Excellence in Teaching (F.A.C.E.T.) conference.
6. Metroversity Award for Instructional Development (Grawemeyer Award) -\$1000 (1989, 1991, 2002).
7. I.U. Intercampus Small Grant for Unusual Research Expenses - \$400 (1990).
8. I.U.S. Distinguished Teacher of the Year Award (1992).
9. I.U. Overseas Conference Fund (1996, 2003).
10. I.U. Teaching Excellence Recognition Award (TERA) -\$1000 (1996, 1998, 1999).
11. I.U. Trustees Teaching Award 2002 (formerly TERA) -\$1000 .
12. I.U.S. Center for Applied Research Strategic Directions Implementation Proposal; Co-author with Lee Williams (P.I.), Deborah Finkel, Marcia Segal, Brenda Swartz -\$194,000 (1998).
13. New Albany-Floyd County Consolidated School Corporation High Tech School Grant from the Indiana Department of Education; Co-author with John Sharpe, Roger Whaley and others -\$199,375 (1998).
14. I.U. Office of Distributed Education grant for development of a distance education course (P310, Environmental

- Physics) summer stipend - \$9402 (2001).
15. I.U.S. Distinguished Research and Creativity Award (2001).
 16. I.U.S. Office of International Programs/Chancellor Fund award for travel- \$100 (2003).
 17. Member of the physical science team for the Diagnostic Teacher Assessments in Mathematics and Science project (UUPMAST: Urban University Partnership for Mathematics and Science Teaching). Funded by a grant to the University of Louisville Center for Research in Mathematics and Science Teacher Development from the U.S. Department of Education - summer stipend - \$7133 (2003).
 18. American Physical Society travel grant funded by the National Science Foundation; to attend the World Conference on Physics and Sustainable Development, Durban, South Africa- \$1500 (2005).
 19. I.U. Office of International Programs to attend the World Conference on Physics and Sustainable Development, Durban, South Africa - \$600 (2005).
 20. I.U. International Programs Committee grant for Spanish language immersion instruction- \$900 (2006).
 21. I.U. International Enhancement grant for travel to Argentina- \$600 (2006).
 22. I.U. International Projects and Activities Grants (IPAG) for a project involving research in physics education in Tandil, Argentina- \$2000 (2006).

PEER REVIEWED PUBLICATIONS

(names of student collaborators are underlined>

A. Non-Linear Physics:

1. K. Forinash; 'Additional Nonperturbative Contributions to Pion-Pion Scattering', *Lettere al Nuovo Cimento*, Vol. 44 No. 8 (1985) p355.
2. K. Forinash; 'Nonperturbative Effects in Electron Positron Annihilation into Mesons', *Acta Physica Polonica*, Vol. B No. 5 (1986) p347.
3. K. Forinash; 'Quantizing Solitary Waves in Field Theory', *Acta Physica Polonica*, Vol. B No. 20 (1989) p87.
4. K. Forinash and J. Keeney; 'Nonlinearly Coupled Double Chain Systems', *Journal of Biological Physics*, Vol. 18, (1991) p19.
5. K. Forinash, A. R. Bishop and P. Lomdahl; 'Nonlinear dynamics in the DNA Molecule', *Physical Review B*, Vol. 43 No. 13 (1991) p10743.
A summary of this work appears in *Nonlinearity with Disorder*, eds. F. K. Abdullaev, A. R. Bishop and S. Pnevmatikos (Springer-Verlag, 1992).
6. K. Forinash and J. Keeney; 'A Double Chain System with Varying Interchain Potential', *Journal of Physics A: Mathematical and General*, Vol. 25 (1992) p6087.
7. K. Forinash, M. Peyrard and B. Malomed; 'Interaction of Discrete Breathers with Impurity Modes', *Physical Review E*, Vol.49 (1994) p3400.
8. M. Peyrard, T. Dauxois and K. Forinash; 'Nonlinear Energy Localization in a Disordered system, Application to DNA Melting', Conference Proceedings, September 26, Madrid; *Fluctuation phenomena: Disorder and Nonlinearity* ed. L. Vazquez, (1994) World Scientific Press.
9. K. Forinash, T. Cretegny and M. Peyrard; 'Local Modes and Localization in a Multi-component Nonlinear Lattice', *Physical Review E*, Vol. 55 (1997) p4740.
10. K. Forinash, C. Lang; 'Wavelet Analysis of Breather Mode Behavior', published on the web after peer review as part of the Solphys Conference proceedings, Lyngby, Denmark 1997. (<http://serv1.imm.dtu.dk/documents/users/mps/SOLPHYS/proceedings/>).
11. K. Forinash, C. Lang; 'Frequency Analysis of Discrete Breather Modes Using a Continuous Wavelet Transform', *Physica D*, Vol. 123 (1998) p437.
12. C. Willis, K. Forinash; 'Nonlinear Response of the Sine Gordon Breather to an ac Driver', *Physica D* 2598 (2000) p1-12.
13. K. Forinash; 'Coupled Multi-Component Systems: A Simple Membrane Model', *Journal of Biological Physics*, Vol. 28 (2002) p63-75.

B. Pedagogy, Distance Education, On-line Laboratories, Web Development:

14. K. Forinash; P201/P202, P221/P222 and P100 Physics Laboratory Manuals, I.U.S. Bookstore (revised annually, 1985-2008).
15. K. Forinash and J. Irick; 'Theoretical Physics Made Easy', *Computers in Physics*, Vol. 2 No. 1 (1988) p59.
16. K. Forinash and R. Wisman; 'Constructive Interaction Between Computer Science and Physics Programs', *Computers in Physics*, Vol. 3 No. 3 (1989) p50.
17. R. Wisman and K. Forinash; 'Discount interfacing with the IBM printer port', *American Journal of Physics*, Vol. 57 No. 6 (1989) p561.
18. R. Wisman and K. Forinash; 'A/D conversion with the IBM PS/2 for under \$5', *American Journal of Physics*, Vol. 59 No. 2 (1991) p187.

19. K. Forinash; 'Physics 100: Science Literacy', *The Physics Teacher*, Vol. 29 No. 7 (1991) p448.
20. R. Wisman, M. Riley and K. Forinash; 'Experimental Data Frequency Measurement with a PC', *American Journal of Physics*, Vol. 60 No. 6 (1992) p570.
21. K. Forinash, W. D. Rumsey, R. Wisman; 'Interactive and Collaborative Uses of the Web' in *How Using Technology Changes what Faculty Do*; Nancy Millichap, editor; published by ihets (Indiana Higher Education Telecommunication System (1998) and on the web after peer review at (http://www.ihets.org/distance_ed/fdpapers/1998/)
22. K. Forinash, T. O'Connor and H. Sibray; 'Interdisciplinary Research Project Involving Physics and Electrical Engineering Students'; *Journal of Engineering Education*, Vol. 90 No. 3 (2001) p 423.
23. K. Forinash, R. Wisman; 'The Viability of Distance Education Science Laboratories' *T.H.E. (Technical Horizons in Education) Journal* Vol. 29 No. 3 (2001) p 380192. <http://www.thejournal.com/magazine/vault/A3639.cfm>
24. K. Forinash, R. Wisman; 'Simple Internet data collection for physics laboratories' *American Journal of Physics*, Vol. 70 No. 4 (2002) p458.
25. K. Forinash, R. Wisman; 'Building real laboratories on the Internet', *International Journal of Continuous Engineering Education and Life-Long Learning (IJCEELL)* Vol. 15, Nos. 1/2 (2005) p56-66.
26. R.F. Wisman and K. Forinash, 'Science in Your Pocket' *International Journal on Hands-on Science (IJHSCI)* Vol. 1, No. 1, September (2008) p7-15.

C. Miscellaneous:

27. K. Forinash, J. P. Richie, T. Jones; 'Wind Chime Physics', *American Journal of Physics*, vol. 58, no. 1 (1990) p82.
28. C. Lang , K. Forinash; 'Time-Frequency Analysis with the Continuous Wavelet Transformation', *American Journal of Physics*, vol. 66, no. 9 (1998) p794.
29. K. Forinash, W. Rumsey, C. Lang; 'Galileo's Mathematical Language of Nature', *Science and Education*, Vol. 9, No. 5 Sept. (2000), Kluwer Publishers.
30. K. Forinash, W. Rumsey; 'A First Course in the History and Philosophy of Science', Invited paper, *European Journal of Physics* Vol. 21 (2000) p 427.
31. K. Forinash, R. Salmon, C. Robbins; 'Brownian Motion Using Video Capture' *European Journal of Physics* Vol. 23 (2002) p249-253.

D. Books:

1. V. Henner, K Forinash; *Mathematical Physics with Interactive Software*; A graduate level textbook with interactive software. A. K. Peters Ltd. 2009.

E. Work in progress:

1. K Forinash; *Waves: An Interactive Tutorial on the web*: [Http://Phyisecs.ius.edu/~kyle/W/Waves.html](http://Phyisecs.ius.edu/~kyle/W/Waves.html)
2. K. Forinash; *Environmental Physics*; a junior level textbook on the application of physics to environmental issues.

PUBLISHED ABSTRACTS, PRESENTATIONS, CONFERENCE PROCEEDINGS, LETTERS, REVIEWS, INTERVIEWS

(names of student collaborators are underlined)

A. Non-Linear Physics:

1. K. Forinash and P. B. Burt; 'Nonperturbative Contributions to Electron Positron Annihilation into Pions', *Bulletin of the American Physical Society*, Vol. 29 No. 2 (1984) p138.
2. K. Forinash; 'Additional Nonperturbative Contributions to Pion-Pion Scattering', *Bulletin of the American Physical Society*, Vol. 30 No.10 (1985) p1767.
3. Invited colloquium speaker for the graduate seminar at the University of Louisville. (1986, 1989, 1991)
4. K. Forinash and J. Keeney; 'Solitons in DNA molecules', *Programs and Abstracts, Indiana Academy of Science*, 105th Annual Meeting, (1989) p80.
5. Invited colloquium speaker for the physics graduate seminar at I.U.P.U.I. (1991).
6. J. Keeney and K. Forinash; 'More Solitons on DNA', *Programs and Abstracts, Indiana Academy of Science*, 107th Annual Meeting, (1991) p74.
7. K. Forinash and J. Keeney; 'Variations of Bond Strength in a Discrete Double Chain System', Annual meeting of the Southeastern Section of the American Physical Society, 11/12/92, Oak Ridge, TN.
8. K. Forinash, M. Peyrard, B. Malomed; 'Breather Mode Interactions with Mass Impurities', *Bulletin of the American Physical Society*, Vol. 39 No.1 (1994) Corrigenda p14.

The same presentation was made at the workshop: Nonlinear Excitations in Biomolecules, Centre De Physique Des Houches, France May/June 1994.

9. K. Forinash, T. Cretegy, M. Peyrard and S. Aubry; 'Local Modes and Localization in a Multi-component Nonlinear Lattice', poster presentation at the meeting 'Fluctuations, Nonlinearity, and Chaos' in Crete, Oct. 1996.
10. K. Forinash, C. Lang; 'Wavelet analysis of breather modes in a discrete chain', poster presentation at the meeting 'Nonlinear Waves and Solitons in Physical Systems' in Los Alamos, May 12-16, 1997.
The same presentation was made at the meeting 'Solitons and Coherent Structures in Physics and Biology' at the Technical University of Denmark, Lyngby, Denmark, May 30- June 3, 1997.
11. K. Forinash; 'Incommensurate double chain systems', invited talk at The International Association for Mathematics and Computers in Simulation (IMACS) annual meeting; 'Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory', 1/6/98, Athens, GA.
12. K. Forinash; 'Discrete Non-Linear systems', invited talk to the Facultad de Matemática, Astronomía y Física, Universidad Nacional de Córdoba, Argentina, April 11, 2007.

B. Pedagogy, Distance Education, On-line Laboratories, Web Development:

13. K. Forinash; 'Physics-Computer Science cooperative projects', *Bulletin of the American Physical Society*, Vol. 33, No.10 (1988) p2214.
14. K. Forinash; Workshop for the Indiana State Teachers Conference on using toys to demonstrate concepts in physics (1989).
15. Member of the I.U.S. Visiting Scientist Program for local high schools (1986 to present).
16. R. Wisman and K. Forinash; 'Laboratory Instruments with Spreadsheets', Masters of Innovation II, Zenith Data Systems (1990).
17. K. Forinash; 'What Are We Trying To Do In Our Introductory Course?' (Letter to the Editor), *American Journal of Physics*, Vol. 60, No. 1 (1992) p11.
18. J. L. Stephens, K. Forinash and R. F. Wisman; 'Computerized Data Acquisition', *Programs and Abstracts, Indiana Academy of Science*, 107th Annual Meeting (1991) p74.
19. K. Forinash; 'High school scientists should not be ignored' (Letter to the Editor), *Quanta*, Newsletter of the Indiana University Physics and Astronomy Society, Issue 4, Vol. 1 (1993) p6.
20. Organizer of three workshops for faculty and staff at the I.U.S. campus on using the Internet for pedagogical purposes (1995).
21. K. Forinash, R. Wisman, W. D. Rumsey; 'Introductory Physics Course Management via the Internet', Invited talk; Annual meeting of the American Association of Physics Teachers, 1/17/96, Reno, NV.
22. R. Wisman, C. Clark, K. Forinash; 'Real Time Data Acquisition via the Internet', contributed talk at the Annual meeting of the American Association of Physics Teachers, 1/6/98, New Orleans, LA.
23. Forinash; 'Teaching the non-major', ILTE (I.U.S. Improving Learning and Teaching Excellence) workshop leader, Tuesday April 21, 1998 and again on Thursday August 27, 1998.
24. W. C. Lang and K. Forinash; 'Response to G. Treviño and E. L. Andreas' 'Comment of 'Time-frequency analysis with the continuous wavelet transform'[Am. J. Phys. 66 (9),794-797 (1998)]' *American Journal of Physics* vol. 67, No. 10 (1999) p935 .
25. K. Forinash, R. Wisman, L. Blankenship; 'Remote Data Acquisition Using the Internet', contributed talk at the Annual meeting of the American Association of Physics Teachers, 1/9/99, Anaheim, CA.
26. K. Forinash, W. Rumsey; 'Anonymous Student Feedback', ILTE (I.U.S. Improving Learning and Teaching Excellence) half day workshop leader, August 26, 1999.
27. K. Forinash; 'Student Evaluation (using pre and post testing)' and 'Interactive Teaching Methods' presenter , two different breakout sessions at the Fourth Annual I.U.S. Teaching Symposium, Saturday October 2nd, 1999.
28. K. Forinash, W. Rumsey; 'A First Course in the History and Philosophy of Science', contributed talk at the annual meeting of the American Association of Physics Teachers in Kissimee, FL, January 14-18, 2000.
29. K. Forinash; Review of the book *Just in Time Teaching* by G. M. Novak, E. T. Patterson, A. D. Gavrín and W. Christian, *American Journal of Physics* vol. 67, No. 10, October 1999, p937.
30. K. Forinash; 'Can you do more with a web page than just stick your syllabus out there?', Fifth Annual I.U.S. Teaching Symposium, Saturday, September 23rd, 2000.
31. K. Forinash, R. Wisman; 'Local and Remote Data Collection Using Excel and the LabPro', contributed talk at the annual meeting of the American Association of Physics Teachers in Philadelphia, PA, January 20-23, 2002.
32. K. Forinash, R. Wisman; 'A simple approach to virtual laboratories', peer reviewed talk at the Second International Workshop on Tele-Education in Engineering using Virtual Laboratories, held at the Université de Sherbrooke in Sherbrooke, Canada, on 8-9 August 2002.
33. K. Forinash, R. Wisman; 'Building real laboratories on the Internet', peer reviewed talk at the Sixth International Conference on Computer Based Learning in Science, July 5-10, 2003, Nicosia, Cyprus.
34. K. Forinash; 'Distance Learning: A solution to Under-enrolled Physics Courses?' Contributed talk at the American Association of Physics Teachers meeting, Miami, Fl. January 24-28 2004.
35. K. Forinash; "El uso de Internet en educación: Algunos Ideas y Ejemplos". 91° Reunión Nacional de Física,

Villa de Merlo, San Luis, Argentina, 26 de septiembre de 2006 (<http://afa2006.unsl.edu.ar>) and at the Facultad de Matemática, Astronomía y Física Universidad Nacional de Córdoba, Argentina, April 25, 2007. Invited.

36. K. Forinash: "Investigaciones en enseñanza de física: Ejemplos del EE.UU." Mesa Redonda durante el Octavo Simposio de Investigadores en Educación en Física (SIEF 8) en Gualaguaychú del 4 al 6 de octubre, 2006. El tema de la mesa era 'Transferencia al aula de las investigaciones en educación en física'. Invited.
37. "El impacto de Internet en la enseñanza de las ciencias experimentales." Entrevista al Dr. Kyle Forinash. *Revista de Biología* 20, Vol. 10 No. 2 (2007) p55. (published by La Asociación de Docentes de Ciencias Biológicas de la Argentina: <http://www.adbia.com.ar/>)
38. R. Wisman, K. Forinash; 'Cellphone Science', contributed talk at the annual meeting of the American Association of Physics Teachers in Chicago, IL, February 14, 2009.

C. Miscellaneous:

39. K. Forinash and T. Jones; 'Measuring Young's Modulus', *Bulletin of the American Physical Society*, Vol. 32 No. 10 (1987) p2151.
40. K. Forinash and W. D. Rumsey; 'Pathological Science: Erroneous Epilogue?' (Letter to the Editor), *Physics Today*, Vol. 43 No. 4 (1990) p108.
41. K. Forinash, C. Chudzinski; 'Physics of skydiving', contributed presentation at the annual meeting of the American Association of Physics Teachers in Kissimmee, FL, January 14-18, 2000.
42. K. Forinash; 'What is Science?'; Letter to the Editor *American Journal of Physics* Vol. 68 No. 9, September 2000, p787.
43. K. Forinash; 'Electronic Publishing Steps Up the Pace'; Letter to the Editor *Physics Today* Vol. 54 No. 1, January 2001, p69.
44. J. Bates, Philosophy, K. Forinash, Physics, W. Rumsey, Philosophy; 'The philosophical problem of free will and determinism' Philosophy colloquium series on the I.U.S. Campus, Tuesday, February 3, 2004.
45. K. Forinash, R. Wisman, C. Lang and N. Couzin with special help from R. Hunt; 'Free and easy sound analysis'; Invited talk for the American Association of Physics Teachers summer meeting in Sacramento, CA. August 1-4, 2004.
46. K. Forinash; Invited presentation at the Ninth Annual Indiana University Southeast / Ivy Tech Teaching Symposium 'Teaching so Students Learn with Understanding' Friday, January 28th 2005.
47. K. Forinash; 'Video Analysis of Brownian Motion'; Invited talk for the American Association of Physics Teachers summer meeting in Albuquerque, NM. January 9-12, 2005.
48. K. Forinash; 'Ending our Oil Addiction: What will it take?' Public presentations to various groups in the US and in Argentina (in Spanish) about world energy use (2006/2007).

Some of the above presentations can be found on the web at: <http://physics.ius.edu/~kyle/Forinash.html>