

## BaoHui Zhang (张宝辉)--Curriculum Vitae



### *Work address*

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### **Education**

2003 Ph.D., University of Michigan  
 Areas of specialty: Educational Technology and Science Education.  
Dissertation title  
 Exploring middle school science students' computer-based modeling practices and their changes overtime  
Dissertation committee: Prof. Joseph S. Krajcik (Chair); Prof. Ronald Marx; Prof. Elliot Soloway; Prof. Elizabeth Davis; and Prof. Brian Coppola (Cognate)  
 2002 M. S., Educational Technology, University of Michigan  
 1994 M. Ed. Chemistry Education, Beijing Normal University, Beijing, China  
 Academic Advisor: Professor Liu, Zhixin  
 1989 B. S. Chemistry, Harbin Normal University, Harbin, China  
 Academic Advisor: Professor Wang, Zuoshu

### **Teaching Experience**

*Courses currently teaching at NIE:*

*Winter 2006*

MID 834: Technologies as Mindtools (Master level, 15 Students)

QED561: Technologies as Cognitive Tools (Undergraduate level, 26 Students)

*Fall 2005*

DED102: ICT for Engaged Learning (Two classes, 57 students)

QED522: ICT for Engaged Learning (One classe, 32 students)

July 2005-Present Assistant Professor, LST AG, National Institute of Education, Nanyang Technology University, Singapore

1994-1998 Lecturer, assistant professor, in Chemistry Education, and student affair administrator, Beijing Normal University (BNU), Beijing, China  
 ([www.bnu.edu.cn](http://www.bnu.edu.cn))

1989-1991 High school chemistry teacher, Zhaolin High School in Shuangcheng City, Heilongjiang Province, NE China.

*Number of students*: two classes, totally about 100 students each year.

Courses taught at BNU:

1997, 1998 Chemistry teaching methodology

Lectured basic theories and organized hands-on sessions of methods of chemistry teaching for pre-service high school chemistry teachers.

*Number of students:* about 50 senior undergraduate students each year.

1997, 1998 Application of Technology to Chemistry Education

Designed and implemented theories and hands-on sessions of computer and other video and audio technology's application in chemistry education.

*Number of students:* about 15 senior undergraduate students each year.

1995-1998 Chemistry method course lab

Lectured and supervised hands-on sessions for junior undergraduate students who practiced how to teach chemistry lab activities.

*Number of students:* 15 each class; totally 30 junior undergraduates each year.

1996-1998 Field instructor for pre-service chemistry student teachers

Met student teachers regularly: read and approved their lesson plans; listened and gave feedback to their simulated teaching; sat in the student teachers' classes and gave them feedback afterwards; gave grade to their performance.

*Number of student teachers:* 7-9 each year (all in one school)

Advising experience at BNU

1997, 1998 Advisor of undergraduate theses

Met regularly with students (senior undergraduate students in Chemistry); helped design their theses projects; supervised students' thesis progress; read and gave feedback to students' writing.

Student names: Zhao, Jing; Ge, Wei

Other teaching experience

1997 Chinese Instructor at PIB (Princeton in Beijing)

(PIB was a joint two-month intensive summer program of Princeton University and Beijing Normal University, Beijing, China)

Lectured and supervised student listening, speaking and writing; led field trips; designed and supervised students' commencement performance.

*Number of students:* 7-11 each class; totally about 40 American college students.

1995 Hosted two call-in radios shows for middle and high school students who had questions about how to prepare for their upcoming final examination, Beijing Radio Station, Beijing, China.

1991-1994 Graduate Student Instructor, Chemistry Department, Beijing Normal University.

Responsible for "Chemistry method course lab" course as mentioned above.

*Number of students:* 15 each class; totally about 30 students each year.

**Research Experience**

July 2005- Present Assistant Professor, LSL, National Institute of Education, Nanyang Technology University, Singapore

Fall 2004-2005 Research Associate, College of Education, Michigan State University.

For a science teacher education project, Teachers for a New Era (TNE) ([www.tne.msu.edu](http://www.tne.msu.edu)), I am a research coordinator to write research proposal, analyze data, and write papers collaboratively with faculty and graduate students

- from the College of Education and College of Nature Science. I am also working with a committee to invite some distinguished visiting scholar in science education to visit MSU for academic exchange. For the US-China Center ([www.china-us.us](http://www.china-us.us)), I write papers and develop research plans for comparative science education research.
- Directors: Bob Floden (TNE); Yong Zhao (US-China Center)
- 2003-2007, Invited researcher, *Cadre teacher professional development for fostering young children's creativity* research project, Youth department, Chinese Association of Science and Technology (CAST) [*CAST in China functions like AAAS in the US.*]
- Fall 2003-Summer 2004 Postdoctoral fellow, LRDC, University of Pittsburgh. A joint project with Carnegie Mellon University (<http://ir.chem.cmu.edu/irproject/>). It is part of the US National Science Digital Library (NSDL) project, National Science Foundation. Co-designed the research on how college introductory chemistry students use a web-based *chemistry virtual lab* learning environment, research design, data collection, and analysis.
- Faculty mentors: Gaea Leinhardt (LRDC, University of Pittsburgh);  
David Yaron (Carnegie Mellon University)
- Fall 2002-Winter 2003 CARAT research fellow, the office of the Provost and Dean of the Horace H. Rackham School of Graduate Studies, University of Michigan (<http://carat.umich.edu>). Co-designed the research on how college introductory chemistry students used a web-based learning environment called *Seeing through Chemistry*, research design, data collection, and analysis.
- Fall 1999-Fall 2002 Graduate Student Research Assistant, Electrical Engineering and Computer Science Department, College of Engineering, University of Michigan  
Primary project: ASSESS (Analyzing Scaffolding Software in Educational Settings for Science) project--Previously called, KDI (Knowledge and Distributed Intelligence) project, National Science Foundation. Conducted classroom observations; video-typing three seventh grade science classes; collected and analyzed process video data, students' artifacts and other data; co-developed a coding scheme for data analysis; wrote research papers; provided feedback to teachers and software developers according to our research results.
- 1998 Research member, Research and Development of Chemistry Teaching Methodology and Curricula for the 21st Century, national 9th-five-year key research project, sponsored by The State Education Department of China
- 1997-1998 Research member, Research and Development of CAI Software for High School Students (Grant No. 96-750-3). National 9th-five-year educational key research project sponsored by The State Education Department of China
- 1995-1996 Research member, Research on the Relationship between MEC and Chemistry Teaching in High Schools, research project sponsored by The State Education Department of China (As part of the national 8th-five-year project)
- 1993-1998 Research member, the Beijing Area MEC\* Chemistry Test Paper Survey Group
- 1994-1995 Computer-based archive management, Archives at Beijing Normal University
- \* MEC= Matriculation (National College Entrance) Examination of Chemistry

## Publications

### Journal papers

- Zhang, B. H., Liu, X., & Krajcik, J. S. (In press). Expert models and modeling processes associated with a computer modeling tool, *Science Education*
- Zhang, B. H., Krajcik, J. S., Sutherland, L. M., Wang, L., Wu, J., & Qian, Y. (2003). Opportunities and challenges of China's inquiry-based education reform in middle and high schools: Perspectives of science teachers and teacher educators. *International Journal of Science and Mathematics Education*, 1(4), 477-503. (An earlier version of this paper was presented at AERA 2004 annual conference, April 21-25, Chicago, Illinois)
- Fishman, B., & Zhang, B. H. (2003, July-August). Planning for technology: The link between intentions and use. *Educational Technology*, 43(3), 14-18.
- Fretz, E. B., Wu, H.-K., Zhang, B. H., Davis, E. A., Krajcik, J. S., & Soloway, E. (2002). An investigation of software scaffolds supporting modeling practices. *Research in Science Education*, 32(4), 567-589.
- Zhang, B. H., Ge, W., and Yang, W. (1998) What Can A Computer Do For Chemistry Teachers? *Journal of Chemistry Education*, 2, p. 29-31 [In Chinese]
- Li, Z., Zhang, B. H. (1995). Analysis of MEC Problems In A New Environment, *Journal of Teaching Reference for Middle School Chemistry*, 4, p. 5-8 [In Chinese]
- Zhang, B. H., Pu, F. (1995). A Series of the Lectures on the Scientific Methods: Experimental Methods, *Journal of Science Education*, 3, p. 17-22 [In Chinese]
- Zhang, B. H. (1995) Practice of Chemical Observation, *Journal of Science Education*, 1, p. 26-28 [In Chinese]
- Li, Z., Zhang, B. H. (1995) Analysis of MEC Test Paper of 1994, *Journal of Math, Physics and Chemistry for Third Grade Senior High School Teacher and Students, 1994-1995*, 1, p. 39-40 [In Chinese]
- Zhang, B. H. (1994) A Brief Introduction to the Salter's Chemistry Curriculum and Its Teaching Methods, *Journal of Chemistry Teaching*, 7, p. 12-16 [In Chinese]
- Chinese Chemical Society Steering Committee of the Chemistry Olympiads, (1994), Report on the National Conference of Chemistry Olympiads, *Journal of Chemistry Education*, 12, p. 42-43 [In Chinese]  
[I wrote the report and other committee members provided feedback for revision.]

### Journal papers in progress

- Zhang, B.H., Richmond, G., Floden, R. (Submitted). Using educational technologies to promote potential teacher candidates' understanding of science. [Target journal: *Technology Pedagogy and Education*.]
- Zhang, B. H., Krajcik, J. S. (In progress). Middle school students' epistemological understanding of models and modeling and its change over time. [Target journal: *International Journal of Science Education*.]
- Zhang, B. H., Krajcik, J. S., & Soloway, E. (In progress). Middle school science students' computer-based modeling practices and how do they change over time. [Target journal: *Journal of the Learning Sciences*]

### Book chapters

- Zhang, B. H., Lustick, D., & Chang, S.-P. (In press). What accounts for good curricula?—A basic framework. In Y. Zhao, D. Lustick, & W. Yang (Eds.), *Research and the Five Dimensions of Effective Schools: A Self-assessment Guide for the Chinese Educators*. Shanghai: East China Normal University Press. [In Chinese, *English version will be published on the center's web site.*]
- Njus, R., Zhang, B. H., & Lustick, D. (In press). Chapter 7: Where the rubber meets the road: A principal's story concerning policy implementation. In Zhao, Y. & Lustick, D. (Eds.), *Government, Assessment, and Accountability in the United States: A Primer For Chinese Educational Leaders*. Beijing: Beijing Normal University Press.
- Zhang, B. H., Qiu, W. and Wang, C. (1997), editor of Chemistry section, in Liu M. (Eds), *Learning methods of middle school subjects*, Hunan Education Press. [In Chinese]

#### Conference papers and presentations

- Zhang, B. H., Chen, W., Looi, C. K. (December 1, 2005), *Handheld computers in Singapore Schools—A brief survey*, Panel discussion presentation at the 13th International Conference on Computers in Education, Singapore.[Session Chair: Michael Jacobson; Panelists: Tak-Wai Chan, Peter Reimann, Kinshuk, Marcelo Milrad, BaoHui Zhang]
- ZHANG, B. H., PATTERSON, R., RICHMOND, G., Joyce PARKER, MERRILL, J., URBAN-LURAIN, M., et al. (November 28-December 2, 2005). *Using Self-response System and Online Learning Environment to Promote Science Learning in A Large College Class*. Paper presented at the 13th International Conference on Computers in Education, Singapore.
- Zhang, B. H., Richmond, G., Parker, J., Urban-Lurain, M., Merrill, J., Patterson, R., et al. (2005, May 13-14). *A model-based reasoning framework for science teaching and learning*. Paper presented at the International Conference on "Teacher Education for the Schools We Need", Toronto, Canada.
- Zhang, B. H., Evans, K., Leinhardt, G., Yaron, D., Cuadros, J., Karabinos, M., & Palucka, T. (2004, July 18-22). *Using an online virtual laboratory to promote undergraduate students' reasoning and conceptual understanding about chemistry: Comparison of different instructional designs*. Paper presented at the 18th Biennial Conference on Chemical Education, Ames, Iowa.
- Fretz, E., Wu, H.-K., Zhang, B. H., Krajcik, J.S., Soloway, E. (2002). *An further investigation of scaffolding design and use in a dynamic modeling tool*. In Reiser, B., Characterizing and Evaluating Software Scaffolds for Scientific Inquiry, Symposium conducted at the Annual Meeting of the American Educational Research Association, April 1-5, New Orleans, LA.
- Zhang, B. H., Krajcik, J. S., Wang, L., Wu, J., & Qiang, Y. (2002, August 6-10). *How do Chinese science teachers' conceptions of the nature of science compare their responses to constructivist teaching theories and practices?* Paper presented at the 17th International Conference On Chemical Education [17th ICCE], Beijing, China.
- Zhang, B. H., Wu, H.-K., Fretz, E. B., Krajcik, J. S., Marx, R., Davis, E. A., & Soloway, E. (2002, April 7-10). *Comparison of modeling practices between experts and novice learners using a dynamic, learner-centered modeling tool*. Paper presented

- at the Annual Meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Zhang, B. H., Wu, H.-K., Fretz, E. B., Krajcik, J. S., & Soloway, E. (2001, March 26-28). *Exploring middle school students' modeling process and cognitive strategies when using a computational modeling tool*. Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, St. Louis, MO.
- Fretz, E. B., Wu, H.-K., Zhang, B. H., Krajcik, J. S., & Soloway, E. (2001). *An investigation of scaffolding design and use in a dynamic modeling tool*. Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, March 26-28, St. Louis, MO.
- Zhu, W., Zhang, Y., Zhang, B. H. (1997) Chemical Literacy Education for Chinese Non-science Major Undergraduate Students, paper presented at the Fifth National University Chemistry Conference, Liaoning University Press, Shenyang, N.E. China. [In Chinese]

#### Research report

- Wang, M., Dong, J., Zhang, B. H. (July, 1994, 1995, 1996). Analysis of MEC test results in Beijing area (MEC\* analysis group), Beijing, China [In Chinese]

#### Contributor to Chinese publications

- Wu, G. (Eds) (1995), History of Chemistry Olympiads, Guang Xi Educational Publishing House, GuangXi, China [In Chinese]

#### Invited Talks

- Zhang, B. H. (2004, July 29-August 1). *Internet-based teaching and research*. Chinese Association for Science and Technology: Cadre high school teacher professional development seminar 2004, Qingdao, China.
- Zhang, B. H., 2003, Exploring middle school science students' computer-based modeling practices and their changes over time. The presentations were made during an academic exchange trip to IPN (*Institute for Science Education*), Kiel University, Germany and INRP (*National Institute of Pedagogical Research*), Paris, France from Nov. 22 to Nov. 30, 2003.

#### **Research Grants**

- 2005-2006, As a PI, collaborate with Dr. WONG Lung Hsiang, JACOBSON Michael and LEE Chwee Beng, *Inquiry and Computer-Based Modeling for Science Learning* (S\$50,000), Learning Sciences Lab, National Institute of Education, Nanyang Technological University
- 2006 (Approved in principle) As a co-PI, collaborate with Dr. Koh Michael (PI), Mr. CHAN Anwar, and Mr. SEOW Peter, *Teaching and learning sports and the physics of human movement through IT applications – an example in Curriculum Gymnastics* (S\$50,000), Learning Sciences Lab, National Institute of Education, Nanyang Technological University
- 2004-2005, as a coordinator and major researcher, with Dr. Gail Richmond (PI), Joyce Parker, John Merrill, Ron Patterson, Mark Urban-Lurain, Doug Estray, et al.

- Teachers for a New Era--Reforming undergraduate science teacher preparation Project*, A sub-project of the Michigan State University *Teachers for a New Era* project (Five million dollars over five years), Carnegie Cooperation at New York
- 2002 Spencer mini-grant, Middle school science students' computer-based modeling practices and their changes over time (Dissertation work) (\$1200), Graduate Affairs Committee, School of Education, University of Michigan
- 2002 CARAT/Rackham IT Fellowship award for fiscal year 2002-2003 (In-house facilities with one year stipends), University of Michigan
- 2002 Spencer mini-grant, How do Chinese science teachers' conceptions of the nature of science compare their responses to constructivist teaching and learning theory and practice (\$468.45), Graduate Affairs Committee, School of Education, University of Michigan
- 2001 Rackham Graduate School Discretionary Grant, How do Chinese science teachers' conceptions of the nature of science compare their responses to constructivist teaching and learning theory and practice (\$ 2,000), (U of M IRB approval # 6362), Rackham Graduate School, University of Michigan.
- 2001 Research grant, the same project as above (\$800), Center for Chinese Studies, University of Michigan.

### **Experiences with Software Programs for Online Teaching, Learning, and Research**

1. 2004, I am using the analyzer program from H-ITT (Hyper-Interactive Teaching Technology, [www.h-itt.com](http://www.h-itt.com)) as a researcher at Michigan State University.  
*[H-ITT uses self-response devices to collect student responses of multiple-choices questions and demonstrates aggregate results immediately in class so that decisions can be made about how to address student difficulties. Attendance and individual inputs can also be collected and analyzed for research purposes.]*
2. 2004, I am using LON\_CAPA (<http://loncapa.msu.edu>) at Michigan State University as a researcher with instructor-level access.  
*[LON\_CAPA is an open source freeware for learning content management and assessment system sharing and using online learning and assessment materials across institutions and disciplines. Log files can be analyzed for research purposes.]*
3. 2003-2004, I used a screen-capture program called Camtasia (<http://www.techsmith.com>) at LRDC, University of Pittsburgh as a researcher.  
*[Camtasia allows users to create videos in a variety of formats (such as QuickTime movies) from any activity or source that is viewable on a Windows desktop and add special effects and voice annotation. Videos of live lectures can be posted online and videos of computer screen activities and audio can be data for research such as usability testing of computer software and the related learning activities.]*
4. 2003-2004, I used Blackboard ([www.cmu.edu/blackboard](http://www.cmu.edu/blackboard)) at Carnegie Mellon University as a researcher with instructor-level access.  
*[Blackboard is an online teaching and learning environment that is used by K-12 and higher education institutions worldwide.]*
5. 2001-2002 I used Cousetools (<https://cousetools.ummu.umich.edu>) as a student;  
*[Coursetools is an online teaching and learning environment powered for the University of Michigan.]*

6. 1999-2000, I used COW (Conference on the Web, <http://calypso.rs.itd.umich.edu/COW>) as a student at the University of Michigan [*COW had similar features as Coursetools.*]

### **Services to the Field and Universities**

#### Journal paper reviewer

*Journal of the Learning Sciences*, 2006-

*International Journal of Science Education*, 2005-

*International Journal of Science and Mathematics Education*, 2005-

*Technology Pedagogy and Education*, 2005-

*Science Education*, 2005-

#### Conference paper reviewer:

International Conference on Computers in Education (ICCE), Singapore, 2005.

International Conference of the Learning Sciences (ICLS), 2001, 2004, 2006

Annual Conference of NARST 2002, 2003 (Strand 7 Educational technology)

Annual Conference of American Education Research Association (AERA) 2002

(Division C: Section 6: Technology Research)

Annual Conference of AACTE 2002, <http://www.aacte.org/>

#### Coordinator for academic exchange trips

January, 2006, Coordinator and interpreter for Chinese Science Education Researchers Delegation (Including Professor HAO Jinghua and Professor WANG Zhong) from Nanjing for their academic exchange trip to NIE and Singapore Schools [Host: Associate Professor LOOI Chee Kit, Director of the Learning Sciences Lab, NIE].

November, 2004, Coordinator and interpreter for the associate chief editor, Mr. Yizhu Liu and Mr. Da Yao for their academic exchange trip to the University of Michigan and Michigan State University

July 28-August 5, 2004, Coordinator, interpreter, and one of the presenters for an academic trip to China. All expense is covered by China Association for Science and Technology for Dr. Joseph Krajcik (University of Michigan), Dr. George DeBoer (Project 2061), Dr. James Minstrell (FACET Innovations, LLC), and Dr. BaoHui Zhang (LRDC, University of Pittsburgh).

September 2003 Coordinator, lodging host, and interpreter for Yiping Huo, a Chinese professor of East China Normal University, for her visit to School of Education, the University of Michigan

March 21-22, 2003, Simultaneous translator (English to Chinese and Chinese to English), Conference on the labor of reform: Employment, workers' rights, and labor law in China, School of Social Work, University of Michigan

August 2001 and September 2002 Coordinator and interpreter for Professor Krajcik's academic exchange trips to China (Cities included but not limited to Beijing, Shanghai, Tianjin, and Guang Zhou).

May 1995 Founder, Beijing Normal (Teacher's) University Undergraduate Student Science and Technology Activity Center, Beijing, China

August 1994-June 1996 Coordinated with Professor Wu, Guoqing on three national academic conferences: *National Conference on Chemistry Olympiads*, Beijing;

*National Conference on MEC, Beijing; National Conference on Chemical Education, Beijing, China*

### **Software and Program Files Production**

Fall, 2002-Summer, 2003, Assisted in designing a research tool called *Event Recorder* (ER) with Michael Bleed and Carl Berger, University of Michigan.

The software package allows researchers to collect real time data, analyze data, graph data for finding patterns, primarily for software usability testing.

Fall, 2002-Winter, 2003, Web learning environment design and evaluation for undergraduate chemistry courses: *Seeing Through Chemistry*, CARAT project at the University of Michigan

Winter, 2002, worked as one of the four team-members for ed728 and ed603 courses collaborating with teachers and students from Greenhills School at Ann Arbor, MI. Design and evaluation of a data-base driven, web-based program for middle and high school wellness students, School of Education, University of Michigan

1999 Narrated a two-hour training videotape for Delphi Company's Shanghai branch, *How to deal with chemical hazards*, Expert Language Service, USA

1999 Two File Maker Pro. Databases files for administration purposes, Hi-ce program, School of Education, University of Michigan

1998 Co-designed *The Macro-Organic Chemistry World*, Middle school chemistry learning tool as a product of "the National Research group of Chemistry Software Design", Beijing Normal University Press, Beijing, China.

1996 Co-designed *Multi-media Software for Middle School Chemistry Teaching and Learning*, Oxford-Cambridge Company, Beijing, China

### Proficiency in using software programs

SPSS, Excel, NUD\*IST, FileMaker Pro., Model-It, Event Recorder, Inspiration

### **Honors**

2003-2004, **CARAT** (Collaboratory for **A**dvanced **R**esearch and **A**cademic **T**echnologies) fellow, Office of the Provost, University of Michigan

October 2002 \$500 Complementary fund for the effort of promoting academic exchange between colleagues at UM and China, the Horace H. Rackham School of Graduate Studies, University of Michigan

1995 Nominated the first grade thesis by the Chinese National Conference on the Relationship of MEC and the High School Chemistry Teaching, Beijing, China

1992, 1993 Nominated Excellent Graduate Student Leader, Beijing Normal University, Beijing, China

1989 Nominated Excellent Undergraduate Student Leader, Harbin Normal University, Heilongjiang Province, China

1988, 1989 Nominated Excellent Undergraduate Academic Scholarship, Harbin Normal University, Heilongjiang Province, China

### **Credentials**

2001 Certificate of Achievement, Intercultural Leadership Colloquium, University of Michigan

1989 High school chemistry teaching certificate, Heilongjiang Province, China

1998 Chinese Teaching Credential, College of Teaching Chinese as a Second Language, Beijing Normal University <http://www.bnu.edu.cn/efaculty/yf11.htm>.

### **Language Skills**

Fluent Chinese and English; Reading ability in Japanese with dictionary.

### **Professional Affiliations**

2006-2010 Executive committee member, GCSCE (Global Chinese Society for Computers in Education)

2000-present American Education Research Association (AERA)—Member

2000-present National Association for Research in Science Teaching (NARST)—Member

1997-1998 Chinese Chemistry Association (CCA)-Member

### **Volunteer Activities**

Fall 2003-2004, Co-chair, alumni program of *Chinese Student and Scholar Association* (CSSA), the University of Michigan

January, 2002-December, 2003, International graduate student representative, School-wide Student Organization Planning Committee, School of Education, University of Michigan. The organization won the Michigan Leadership Award for Outstanding Student Organization on April 7<sup>th</sup>, 2003.

Committee leader: Annemarie Sullivan Palincsar, and later Jeff Mirel, associate dean, School of Education, University of Michigan.

January, 2001-present Working Team member on international student issues (WTISI)—University of Michigan international web page design group, Team leader: John Godfrey, assistant dean for international education, Rackham Graduate School, University of Michigan.

Summer 2000 Volunteer as one of the peer advisors for international student orientation, International Center, University of Michigan.

May, 2000 Volunteer Chinese interpreter for ISEF 2000 (International Science and Engineering Fair 2000), Detroit, MI.

### **References**

**Joseph S. Krajcik**, Professor of Science Education, University of Michigan

Telephone number: 734-647-0597 (O); Email: [krajcik@umich.edu](mailto:krajcik@umich.edu)

**Barry J. Fishman**, Associate professor of Learning Technologies, University of Michigan

Telephone number: 734-647-9572 (O); Email: [fishman@umich.edu](mailto:fishman@umich.edu)

**Ronald Marx**, Professor of Educational Psychology; Dean, College of Education, University of Arizona

Telephone number: 520-621-1081 (O); Email: [ronmarx@email.arizona.edu](mailto:ronmarx@email.arizona.edu)

**Robert E. Floden**, Professor of Teacher Education, College of Education, Michigan State University

Telephone number: 517-355-3486 (O); Email: [floden@msu.edu](mailto:floden@msu.edu)