



Curriculum Vitae
Moore, John M. Ed. D.

Professor of Biology, Past Chair of the Department of Biology
Fulbright Scholar/Fellow 2011
HHMI Faculty Mentor and BioInteractive Ambassador
Director of Ecuador Academic Programs, Spencer Centre of Global Engagement
Past President
Indiana Association of Biology Teachers 1993
National Association of Biology Teachers 2009
Hoosier Association of Science Teachers Inc. 2013
Council for Science Society Presidents 2009 – present
Advance Placement Consultant and AP Read Leadership

Education and Academic Degrees:

B.S. (1972), Biology and General Science, Taylor University; M.A. (1978) and Ed. D. (1989), Biology, General Science and Computer Science Cognate, Ball State University.

Experience:

Professor (1992-Present), Instructor and Adjunct Faculty (1977-1992 CSS, ED and PE Departments), Taylor University
Director of Academic Programs in Ecuador, 2007-Present
Fulbright Scholar (2011 – present),
HHMI Faculty Mentor (2016-Present); HHMI BioInteractive Ambassador (2013 – Present)
Biology Curricular Consultant (2000-Present);
Advanced Placement Consultant and AP Read leader (1994 – Present).
ETS Test Development Consultant 1998 – 2014)
High School Biology Teacher (1973-1993), Marion High School, Wrestling Coach 1973-1982
Doctoral Fellow and Instructor (1985-1986), Ball State University;
Multimedia Consultant (1993-Present)
Waterfront Director – Taylor University (1975 – 1992)

Courses Taught in the last five years:

- BIO 201 Fundamentals of Cell Biology and Genetics
- BIO 203 Principles of Genetics
- BIO 300 Medical Physiology, Cuenca Ecuador
- BIO 345 Evolution and the Nature of Science
- BIO 493 Senior Capstone
- NAS 201 The Nature of Science: Science as a way of Knowing
- NAS 309 Science Methods for Secondary Education Majors

Other Collegiate Assignments:

- Student Teaching Advising
- Advisor for Science Education Majors
- Faculty Workshops -- Colleagues College
- Faculty Mentor – BCTLE
- Faculty Personnel Committee (Chair)
- Curriculum Management Committee
- NCATE Evaluation Team
- Departmental Review Committee
- Division/School Vision Committee and Building Committee

- Spencer Centre for Global Engagement
- Comprehensive Internationalization Leadership Team
- International Programs Assessment Group Committee
- Faculty Council
- Ecuador Centre Leadership Committee
- Department of Biology Facebook Moderator
- Taylor University Cuenca Program Facebook Moderator

Publications:

- "Focusing on Metacognition in Undergraduate Classes" 2019. HHMI Educator Voice
- "The Nature of Science: A science standard we are to be teaching", The Hoosier Science Teacher, Volume 39, No 2, Winter, 2013
- "Comprehensive Internationalization", The Hoosier Science Teacher, Volume 39, No 1, Fall 2013
- "Next Generation Science Standards", The Hoosier Science Teacher, Volume 38, No 4, Summer 2013
- "Greetings Hoosier Science Teachers", The Hoosier Science Teacher, Volume 38, No 3, Spring 2013
- "The Immortal Life of Henrietta Lacks." Book Review American Biology Teacher, Vol #72, No 9, November/December 2010
- "Irrational Fear" or "Irrational Complacency" Science and Health; Myth Busters", American Biology Teacher, Vol #71, No 9, November/December 2009
- "Developing A Community of Scientists & Science Educators: Now Is the Time!" American Biology Teacher, Vol #71, No 8, October 2009
- "Informing Their Discretion", American Biology Teacher, Vol #71, No 7, September 2009
- "From the President", American Biology Teacher, Vol #71, No 6, August 2009
- "Sustainability", American Biology Teacher, Vol #71, No 5, May 2009
- "We Need More Mr. Ps in Biology Education: Strong in Biology, Strong in Science, and in Science", American Biology Teacher, Vol #71, No 4, April 2009
- "Education, A True Professional!" American Biology Teacher, Vol #71, No 3, March 2009
- "Teaching Students Evolution with Patience, Respect and the Nature of Science", American Biology Teacher, Vol #71, No 2, February 2009
- "Letter from the President", American Biology Teacher, Vol #71, No 1, January 2009
- "The Natural History of Ireland." The Hoosier Science Teacher Fall, 2007
- Letter to the Editor "Let's teach it well, let's have fun and vary the process, but let's teach it right and keep it accurate! The Hoosier Science Teacher Spring, 2006
- "The nature of science: How well do we understand it? How well do we teach it?" The Hoosier Science Teacher Fall 2003
- "Using Human Examples to decrease Misconceptions in Genetics." The Hoosier Science Teacher. August 2001
- "*Poor Richard Web Site*," American Biology Teacher, Vol.# 61 No 9 (November/December, 1999): page 712.
- "Tumor Infiltrating Lymphocytes (TILs)." Indiana Association of Biology Teachers Newsletter, April 1992, pp. 2.
- "Can the use of Human Examples Facilitate Learning Mendelian Genetics Concepts?" Journal of School Science and Mathematics, May/June 1992, pp. 273-277

Papers and Workshops Presented:

- "Meaningful Learning of Mendelian Genetics." Hoosier Science Teacher Convention, Indianapolis, February, 1991, and National Association of Biology Teachers Convention, Nashville, November 1991.
- "Using Human Examples to teach Mendelian Genetics." National Association of Science Teachers National Convention, Boston, April 1992.
- "A.P. Laboratories" Hoosier Science Teacher Convention, Indianapolis, February, 1992.
- "Using LINKWAY to develop Student Presentations." National Association of Biology Teachers National Convention, Denver, November 1992, and the Hoosier Science Teachers Convention, Indianapolis, February 1993.
- "Multimedia using LinkWay" Colleagues College, August 1994.
- "Concept Mapping and LINKWAY." National Association of Biology Teacher National Convention, Boston, November 1993.

□ LinkWay Workshop for Marion High School Faculty, IBM, Fort Wayne, IN, March 1992.

Three Day Workshop on LinkWay and Multimedia: San Antonio Magnet Schools and Our Lady of The Lake University, San Antonio, January 1994.

□ "LinkWay - Multimedia and Concept Mapping: A Constructivist Approach" Hoosier Science Teachers Convention and Indiana Biology Teachers Convention, Indianapolis, February 1994.

□ "Constructivism and Multimedia" Colleagues College, August 1994.

□ "Enzymes, Energy, and You: Bioenergetics, a Human Approach." National Association of Biology Teacher National Convention, St. Louis, November 1994, and the Hoosier Science Teachers State Convention, Indianapolis, February 1995.

□ "Constructivism and Multimedia." International Hypermedia Convention, Indiana University, Bloomington. October 1995

□ "Teaching Bioenergetics from a Human Approach." National Association of Biology Teachers National Convention, Phoenix, October 1995.

□ "Preservice Education in Informal Education Resources for Elementary Education Majors." National Association of Biology Teachers National Convention, Phoenix, October 1995.

□ "Teaching Bioenergetics from a Human Approach." National Association of Biology Teachers National Convention, Charlotte NC, October 1996.

□ "Multimedia and Concept Mapping, a Constructivist Approach." Coalition of Christian Colleges Technology Conference, Upland IN, October 1996.

□ "Multimedia and Concept Mapping, a Constructivist Approach." Global Science Conference (NSTA), San Francisco, December 1996

□ "Pre-service Education in Informal Education Resources for Elementary Education Majors." Global Science Conference (NSTA), San Francisco, December 1996

□ "Webpage Development." Workshop at Taylor University, June 1997.

□ "Cell Respiration", National Association of Biology Teachers, National Convention, Reno, Nevada. October 24 1998

□ "Cell Respiration" Hoosier Science Teacher Convention, Indianapolis, February 1999

□ "Authorware Academic: multimedia in the classroom. Hoosier Science Teacher Convention, Indianapolis, February 1999

□ "Photosynthesis and Cell Respiration: a thematic approach." National Association of Biology Teachers, National Convention, Fort Worth, Texas. October 30 1999

□ "Four-year college website." National Association of Biology Teachers, National Convention, Fort Worth, Texas. October 30 1999

□ "Cell Respiration: web based multimedia." National Science Teachers Association, National Convention, Boston, Massachusetts. March 25, 1999

□ "Cell Respiration then Photosynthesis, how to teach bioenergetics." National Association of Biology Teachers, National Convention, Orlando Florida, October 26, 2000

□ "Teaching Innovation in Non-majors Biology." National Association of Biology Teachers, National Convention, Orlando Florida, October 26, 2000

□ "Photosynthesis and Cell Respiration: a thematic approach." Hoosier Science Teacher Convention, Indianapolis, February 2001

□ "Bioenergetics made easy: Teach it backwards." National Association of Biology Teachers, National Convention, Toronto Canada, October 26, 2001

□ "Using Science Modules to teach Bioenergetics." Hoosier Science Teacher Convention, Indianapolis, February 2002

□ "Natural History of Ireland?" Greystones, Ireland; (November, 2002)

□ "The Nature of Science: How well do we teach it." Hoosier Science Teacher Convention, Indianapolis, February 2003

□ "Bioenergetics made easy: Teach it backwards." National Association of Biology Teachers, National Convention, Portland, October, 2003

□ "Bioenergetics made easy: Teach it backwards." National Association of Biology Teachers, Chaired Four-Year Section and Business meeting, Developed Region III Social, National Convention, Chicago, November, 2004

□ "Concurring Cell Respiration and Photosynthesis." National Association of Biology Teachers, National Convention, Milwaukee, October 2005

- “Developing Service Learning Courses to increase Student Retention in Biology Programs.” National Association of Biology Teachers Professional Development Conference, Albuquerque, October 2006.
- “Photosynthesis and Cell Respiration.” National Association of Biology Teachers Professional Development Conference, Albuquerque, October 2006.
- “Teaching Cell Respiration and Photosynthesis” National Association of Biology Teachers Professional Development Conference, Atlanta, November 2007.
- “Guidelines for Undergraduate Biology Education” Summit on Undergraduate Biology Education, AAAS Washington DC, May 2008
- “Bioenergetics, teach it backwards” National Association of Biology Teachers Professional Development Conference, Memphis, October 2008
- “Developing an Undergraduate Biology Professional Development Summit” Summit on Undergraduate Biology Education, HHMI Bethesda, MD, 2008
- “Quick Hits: Using visualizations and metaphors to teach difficult concepts in biology” HASTI Professional Development Conference, Indianapolis, 2009
- “The role of NABT in undergraduate biology education professional development” Summit of Undergraduate Biology Education, AAAS Washington, DC, 2009
- “Peruvian International Studies for Education: Development Delegation Northern Peru”-- Poster Session National Association of Biology Teacher National Professional Development Conference, Minneapolis MN. 2010
- “Protein Synthesis, Replication and Mitosis, a conceptual approach” National Association of Biology Teacher National Professional Development Conference, Minneapolis MN. 2010
- “A model of Global Engagement in Undergraduate Biology” National Association of Biology Teachers National Professional Development Conference, Anaheim CA 2011
- CAG Conference, National Conference on Science Education, Albuquerque NM, 2012
- Conference Programs for the NSTA National Professional Development Conference, Indianapolis IN 2012 Conference Programs HASTI conference, Indianapolis IN, February 2013
- Next Generation Science Standards: CAG Conference, National Conference on Science Education, San Juan, Puerto Rico, July 2013
- Vision and Change: Chronicling the Change, National Science Foundation and AAAS Washington DC, August 2013
- “A Framework for the teaching of Protein Synthesis” National Association of Biology Teachers Professional Development Conference, Atlanta, November 2013
- “Cell Respiration then Photosynthesis” National Association of Biology Teachers Professional Development Conference, Cleveland November 2014
- “Teaching Bioenergetics” National Science Teachers Professional Development Conference Boston 2015
- “Implementing Vision and Change across the department” Poster at National Association of Biology Teachers National Conference, Providence 2015
- “Bioenergetics made simple” National Association of Science Teachers National Conference, Nashville 2016
- “Anoles” Quantitative Biology Conference, Raleigh 2016
- “Lactase” Quantitative Biology Conference, Raleigh 2016
- “Redesign of Principles of Genetics base on Vision and Change” National Association of Biology Teachers National Conference, Denver. November 3-6, 2016
- “Origin of Skin Color”, HHMI Faculty Mentor Participant National Association of Biology Teachers National Conference, Denver. November 3-6, 2016
- “Stratifying Biology Research in an Undergraduate Biology Program”, Advance Placement Kansas City, MO June 2017.
- “The Genetics of Skin Color” Quantitative Biology Conference, Ann Arbor July, 2017
- “Stratifying Biology Research in an Undergraduate Biology Program”, National Association of Biology Teachers, Professional Development Conference, November 2017
- “Teaching the Nature of Science” AP Read June 2018
- “Teaching Evolution at an Evangelical Institution” Poster HHMI Ambassador Conference July 2018
- “Bioenergetics, ” Nov. 2018
- “Metacognition in Undergraduate Biology Education”: Baylor University March 2018

- “Metacognition for Learning Assistants”: Baylor University September 2019
- “Cell Respiration”: National Association of Biology Teachers Nov. 2019

“Metacognition of Faith and Learning” Science Scholar - SNAS Nov. 2019

- ‘Bioenergetics: Applying Overarching Principles, Visualizations, and Metacognition for better understanding’ National Association of Biology Teachers Nov. 2020
- “Calling of a Teacher”: BCTLE 2021

Education Research and Goals:

- Developing Concept Learning Strategies in Biology Education. Conducted research in the teaching of Mendelian Genetics using Human Examples. Presented paper presentations on Concept Learning Using Human Examples at NABT, NSTA, and HASTI.
- Constructivism and Multimedia in Biology Education. Working with IBM in using Macromedia Authorware and Flash multimedia material to help facilitate learning of biology concepts. Presented workshops at NABT and HASTI on use of Multimedia and Student Presentations. Developing the relationship between multimedia and concept mapping in a Constructivist approach.
- Distance Learning. Development of instructional designs that take the student beyond the confines of the classroom.
- Metacognition: assisting students understanding of their own learning.
- Integrative Science – Nature of Science – Science as a Way of Knowing. Developing science courses that integrate the varied areas of science by focusing on the processes to address our knowledge of the world.
- Public Health/Community Development/Education in a Global Engagement: Developing community on a global scale [focus is primarily Latin America].

Current Professional and Academic Association Memberships:

- Alpha Chi, National Honor Society
- Advanced Placement Faculty Consultant (AP)
- American Biology Teacher, Reviewer
- Council of Science Society Presidents (CSSP); Science Education Committee Chair
- Fulbright Fellow (Scholar and Reviewer)
- Hoosier Science Teachers Association (HASTI) Past President, 2013/14
- Howard Hughes Medical Institute BioInteractive Ambassador 2013 – Present
- Howard Hughes Medical Institute Faculty Mentor 2016 – Present
- Indiana Association of Biology Teachers (IABT) Past President 1994
- National Association of Biology Teachers (NABT) Past President 2009
- National Association of Biology Teachers (NABT) Facebook Group Moderator 2008
- National Science Teachers Association (NSTA), CAG Representative 2012-2014
- Phi Delta Kappa (PDK)

Professional Services: See above in professional memberships

- Howard Hughes Medical Institute Faculty Mentor: 2016
- AAAS Consultant on Vision and Change for society involvement.
- NABT: President 2009, National Bylaws revision & Position Statement Revision committee and Web Task Force Sub-committee, Executive Board Member (2003-present), Region III Coordinator (2002-present), Regional Representative 1994, Moderator at Affiliates meeting at National Convention (1994), Four-Year-College section; Chair (2004), Chair elect & secretary (2001-2002); Publicity Chair (1996-2001), Webmaster for four-year college division 1999-2002), American Biology Teacher - Reviewer for Journal. Facebook Moderator
- CSSP: Chair of the Math and Science Education subcommittee
- AP Consultant – (1994 – Current)
- I-STEM, Science Committee 2008
- Indiana State Science Competency Evaluation Team
- Indiana Department of Education College Program Evaluation
- North Central High School Evaluation Teams,

Marion Community Schools Science Curriculum Committee and Marion Community School Science Advisory Committee, (1986-1992).

IABT: President 1994, Vice - President (Elect) 1993, Publications Committee, Program Committee, Grants

ETS/College Board: AP Faculty Advisor, table larder and question leader, 1992 - current.

HASTI: President 2013/14; Vice president 2012/13, Convention Program Committee 93, 94, 96-2006; Board member, 2000-2006, Membership Subcommittee; Professional Development Subcommittee on Assessment; Hoosier Science Teacher- Reviewer for Journal

Alpha Chi: University representative and campus director.

Honors and Recognitions:

Outstanding Educator Award for Marion High School (1989,90,92);

Who's Who in American Teachers (1991-1994; 1997 & 2001-2008);

Lexington's Who's Who in America (2000, 2009- Current);

Swarthmore's Who's Who in American (2006 - Current)

Suttons Who's Who in America (2008 – Current)

Marquis' Who's Who in American (2006-Current)

Who's Who in Science and Engineering (2005)

Who's Who Among Executives and Professionals (2010 - Current)

Chi Alpha Omega (1994-)

Professor of the Year (2006-07) Taylor University

Campus Leadership and Educator Award (2019 _Taylor University

Fulbright Scholar (2011 - Current)

Professional Service Award (2014) HASTI

HHMI Faculty Mentor (2016 – Current)

Honorary Membership Award: 2018 National Association of Biology Teachers

Honorary Faculty Member. Universidad del Azuay, 2020

Honorary Member of Fundación Hogar del Ecuador, 2020