

Curriculum Vitae

David Butler

EDUCATION, DEGREES, and CERTIFICATIONS

University of Indianapolis, Indianapolis, Indiana

Master of Curriculum and Instruction with a STEM Concentration, *Pending Competing August 2024*

Ball State University, Indiana Wesleyan University and University of Hawaii at Manoa

Higher Learning Commission's Dual Credit Certification, March 17, 2019

Indiana University-Purdue University, Indianapolis, Indiana

Computer Endorsement, August 15, 1999

University of Southern Indiana, Evansville, Indiana

Master of Science in Secondary Education, August 29, 1994

Ball State University, Muncie, Indiana

Bachelor of Science, May 5, 1989

Teaching Major in Science

Primary Area in Biology

Supporting Area in Earth and Space Science

ACCREDITATIONS

State of Indiana Teacher's License:

Master of Science in Secondary Education

Secondary-Standard, Basis Rules 46-47

Biology: Primary Area (9-12)

Earth Space Science: Supporting Area (9-12)

Computer: Endorsement (K-12)

TEACHING EXPERIENCE

Southern Wells Junior Senior High School, Poneto, Indiana: August 2000 - Current:

Involvement: Department Chair, Union President, and Webmaster; Committees: High Ability, Academic Recognition, Teacher Evaluation, Teacher Negotiation, Principal Selection, Coordinated School Health Planning, and Building and District Level Technology

Courses Taught: Current: General Biology, Advanced Biology (Dual Credit), Anatomy and Physiology (Dual Credit), Botany/Zoology (Dual Credit), and Earth Space Science

Past: Biological Research and Bioethics.

Cardinal Ritter High School, Indianapolis, Indiana: August 1996 to June 2000:

Involvement: Department Chair; Committees: Performance Based Assessment (PBA) Correlate Team; Building Level Technology, and Teacher Mentoring Program

Courses Taught: Advanced Biology, Biological Research, Bio-Ethics, Anatomy and Physiology, Honor Biology III, General Biology II, Botany and Ecology, Environmental Science, Earth and Space Science and Computer

Hamilton Southeastern High School, Fishers, Indiana: August 1995 to June 1996:

Involvement: Committee: Building Level Technology

Courses Taught: General Science and Physical Science

Indiana Vocational Technology College, Evansville, Indiana: October 1994 to June 1995

Involvement: Teacher

Course Taught: Faculty for Adult Computer Literacy Instruction and Lab

Mount Vernon High School, Mount Vernon, Indiana: August 1989 to June 1995

Involvement: Swimming Coach, Science Club Sponsor; Committees: Building-District Level Technology, and Science Department Book Adoption

Courses Taught: Advanced Biology, General Biology and General Science

EXTRA-CURRICULAR STUDENT RELATED ACTIVITIES

National Honors Society Sponsor at Southern Wells High School from September 2015 – Current

Biology Club Sponsor at Southern Wells High School from August 2005 – Current

PEERS Project, “Abstinence Club” Sponsor from August 2005 – May 2007

Southern Wells Academic Team Co-Sponsor and Sponsor from September 2000 – October 2004

Mini Medical School Program and Presentations at Indiana University-Purdue Campus from October 1999- April 2000

Brain Game and White River Academic League Sponsor at Cardinal Ritter High School from September 1996 – May 2000; Including Indianapolis White River Academic Team Championship, WTHR Channel 13 Semi-finalist, State and National Qualifiers and Participation.

Science Club Co-Sponsor at Cardinal Ritter High School from October 1998 – May 1999

Science Club Sponsor at Mount Vernon High School from August 1991 – May 1992

Boys and Girls Swimming Team Coach at Mount Vernon High School from August 1989 – February 1991; Including Big 8 Conference Championships and State Qualifiers and Participation.

PROFESSIONAL DEVELOPMENT and ACKNOWLEDGMENTS

Workshops:

National Congress on Science Education Convention, Washington, DC, 2020

Indiana University's Biology Summer Institute to Create 9-12 Labs/Activities, Dr. Erik Ragsdale, June 10-14, 2019

Co-Teaching that Works, Anne Beninghof, Bureau of Research and Education, February, 27, 2017

Galapagos Islands Field Expedition, Ecuador, South America, March 9-19, 2016

Science Teachers' Enrichment Program, National Tropical Botanical Garden, Kauai, Hawaii, June 29-July 12, 2015

Differentiating Instruction, EdD Carol Tomlinson, University of Virginia, July 8-12, 2013

Redefining Supervision of Student Teachers, Ball State University, August 2, 2010

Understanding Poverty, Dr. Ruby Payne Workshop Santa Fe, New Mexico, June 16-20, 2008

Blogging the Research Process Workshop, Region 8 Education Service Center, January, 2007

Career and Technical Education Workshop, Indiana Career Pathways, February, 2001

Assessment Workshop, Rubrics for Assessment, April, 1999

Assessment Workshop, Proper Assessment Strategies for Teachers and Students, October, 1998

Science Proficiency Guide Workshop, Science Curriculum Information, November, 1997

Project Wild Workshop. Supplementary Environment and Conservation Program, February, 1996

Wetlands Workshop. Integrated Biological Curriculum and Field Work, September, 1995

Webmaster:

IABT (Indiana Association of Biology Teachers) Website Designer and Manager: sites.google.com/site/indianabiologyteachers, 2015 – Current

NABT (National Association of Biology Teachers) Biology Club Facebook (Meta) Creator and Administrator, 2009 - Current

Southern Wells Biology Website: www.rm118.com, 2000 – Current

Southern Wells Corporation Website Designer and Manager: www.swraiders.com, Fall 2000 - 2013

School Committees:

Southern Wells Junior Senior High School: High Ability, Academic Recognition, Teacher Evaluation, Teacher Negotiation, Union President, Principal Selection, Coordinated School Health Planning, and Building and District Level Technology Committees.

Cardinal Ritter High School: PBA Correlate Team, Building Level Technology, Teacher Mentoring Program, National Honor Society, and Block Scheduling Committees.

Hamilton Southeastern High School: Building Level Technology and Block Scheduling Committees.

Mount Vernon High School: Building Level and District Level Technology, Science Department Book Adoption, and Social Committees.

Participations:

NABT Board of Directors Member, 2024 – Current

NABT District III Director of IN, MI, OH, WI, and IL, 2023 – Current

NABT Outstanding Biology Teacher Award (OBTA) Application Reviewer, 2023 – Current

NABT Membership Committee, 2023 – Current

NABT Biology Club Scholarship Selection Committee, 2023 - Current

HASTI (Hoosier Association of Science Teachers, Incorporated) Conference Presenter, Indianapolis, Indiana, 1989 – Current

HASTI Conference and Proposal Review Committees, 2022 – Current

HASTI Annual Conference Chair and Organizer, 2023

Beginning Teacher Mentoring Program; Support, supervision, and evaluation of new teachers, 2005 – Current

HASTI Publicity Co-Chair, 2024

HASTI Executive Board Member, 2019 – 2023

Taylor University Student Teacher Supervisor; Guiding and instructing a student teacher in the areas of education and life science, 2022 – 2023

NSTA (National Science Teacher Association) Session/Conference Proposal Reviewer, 2022 and 2023

HASTI President, 2021 – 2022

HASTI Vice President Elect, 2020

HASTI District 3 Director Board Member, 2019 – 2020

HASTI At-Large Director Board Member, 2017 – 2018

e3 Technology Conference, Warsaw, Indiana, “Equipping, Engaging, and Excelling Technology”, 2019

NSTA Cincinnati Conference Session Proposal Reviewer, “Constructing Bridges: Building Lifelong Appreciation and Passion for Science”, 2019

World Strides Incorporated, Alaska trip for hands-on learning experience with students for one week, 2018

Southern Wells Curriculum Mapping and Development, Outlining course goals and objectives for all biology courses, 2017

Indiana Master Naturalist Program and Certification, 2014

IABT Past President, 2015-16

IABT President, 2014-2015

IABT Vice President Elect, 2013-2014

Ball State University Student Teacher Supervisor; Guiding and instructing a student teacher in the areas of education and life

science, 2010 - 2011

Indiana Wesleyan University Graduate Studies in Education Mentor; Conferences, observations, and reporting activities over a candidate's Master of Education course of study, 2008 – 2010

Indiana Outdoors by Ball State University; Video presentation of the Southern Wells Rivers and Streams Project, 2002.

Technology Associates Program; Provides a cadre of educators throughout Indiana to be made available to present requested technology-related workshops to teachers, 1999.

Central Indiana Educational Service Center, Internship in the areas of professional development, technology services, consultant services, media services, and hardware maintenance as cooperative educational services for central Indiana, 1999

Technology In-service Day at Cardinal Ritter High School; Various software and hardware discussion for in-class use, May, 1998.

Teacher Candidate Interview Day at Indiana University; Assisted in Recruiting Prospective Teachers, April, 1997.

North Central Association Visitation Team Member, Review and Recommendations made for North Central Association Membership for Forest Park High School, October, 1997.

Indiana Summer Institute for Technology, Course sponsored by Indiana University Purdue University of Indianapolis at Plainfield High School, July, 1996

RECOGNITIONS

Certifications:

Adjunct Faculty for a College Transition Program for Dual Credit Certification, August 1, 2019 - Current, Indiana State University, Terre Haute, Indiana

Adjunct Faculty for a College Transition Program for Dual Credit Certification, August 1, 2011 - Current, Ball State University, Muncie, Indiana

Adjunct Faculty for a School-Based Program for Concurrent Credit Certification, August 31, 2007 - June 1, 2011, Indiana-Purdue of Fort Wayne, Indiana

Beginning Teacher Mentor Certification, May 19, 2005, Region 8 Education Service Center of Northeast Indiana, Fort Wayne, Indiana

Awards and Honors:

Southern Wells School Corporation Educator of the Year Award, Wells County Chamber of Commerce, November 28, 2023

Emerging Leader in Education Recognition, by the Indiana Department of Education, October 10, 2023

PAEMST (Presidential Award for Excellence in Mathematics and Science Teaching) State Finalist Recognition, July, 2019

NTHF (National Teacher Hall of Fame) Semi-Finalist Recognition, Spring of 2018, 2019, and 2020

Tri-Kappa Classroom Grant, *"That's the Last 'Plastic' Straw"*, September 14, 2019

Tri-Kappa Classroom Grant, *May "Anatomical Orientations" be with You, Young Jedi*, October 1, 2018

Wells County Foundation Teacher Creativity Grant Award, *We Should be Able to Spy with Our Little Eyes*, April 13, 2017

Tri-Kappa Classroom Grant, *Chick-in-a-Cup*, October 7, 2016

Wells County Foundation Creativity Grant Award, *Tissue Trek*, May 1, 2016

Excellence in Education Award, Spotlighting Exceptional Teachers in Community, March 20, 2015

Clyde Motts Award for Innovative High School Science Teaching, by the Hoosier Association of Science Teachers, Inc., February 4, 2016

Wells County Foundation Teacher Creativity Grant Award, *Boo-ology*, May 1, 2015

Wells County Foundation Teacher Creativity Grant Award, *Cyber Science*, June 1, 2014

Wells County Foundation Teacher Creativity Grant Award, *Probing for Biotechnology*, November 21, 2013

Wells County Foundation Teacher Creativity Grant Award, *BioBot*, June 28, 2013

We Are Teachers Fisher Science Education Teaching Grant Finalist, April 23, 2013

Wells County Foundation Teacher Creativity Grant Award, *Amazing "Human" Race*, October 12, 2012

Neil Campbell Fellows Award, October 2, 2012

National Association of Biology Teacher Outstanding Biology Teacher of the Year Award for the State of Indiana, May 10, 2012.

Earth Space Picture of the Day Honor, "*Hibiscus trionum*", December 23, 2012

Wells County Foundation Teacher Creativity Grant Award, *Web-of-Life Research Project*, December 1, 2011.

Wells County Foundation Teacher Creativity Grant Award, *Online Biology Courses Club*, November 24, 2010.

EDS Technology Grant Awarded by EDS Indianapolis Accounts, April 17, 2008.

Bright Ideas Grant Award by Vectren Corporation, November, 2004.

Unsung Heroes Grant Award by ING Northern Annuity, August, 2002.

Center for Interactive Learning and Collaboration Grant Award by CILC, December, 2001

Who's Who Among America's Teachers, 6th ed., January, 2000.

Mini Medical School Student Participation Award by Indiana University, December, 1999.

Nominated for the Presidential Award for Excellence in Mathematics and Science Teaching, January; 1999, 2000

Nominated for the Indiana Computer Educators Award in Science and Mathematics, September, 1999

Certificate of Achievement as an Honorary Cyber Teacher by the Central Indiana Educational Service Center of Indianapolis, August, 1999

Nominated and Participated in the Exemplary Technology-Using Teacher Projects by Purdue University, School of Education, October, 1998.

Bio-Technology Related Grant Award by Eli Lilly, July, 1998.

Teacher Grant Award by Eli Lilly, May, 1998.

Total Catholic Education Endowment Grant Award by Archdiocese of Indianapolis, April, 1998.

Nominated for the Outstanding Biology Teacher Award by the National Association of Biology Teachers, January, 1997, 1998.

Presentations:

Indiana Master Naturalist Presenter on Mammals, DNR and Purdue Extension Sponsored, Indiana 2015 – Current

Hoosier Association of Science Teachers Annual Convention Presenter on Visualizing Advanced Genetics for Molecular Biology Courses, Indianapolis, Indiana, 2020.

University of St. Francis, "Best Practices Showcase", Learning Before Lecture Reading Strategy, Fort Wayne, Indiana, 2019.

Hoosier Association of Science Teachers Annual Convention Presenter on Biology Related Demonstrations, Activities, and Labs for Science and Biology Clubs 7-12, Indianapolis, Indiana, 2018.

Bureau of Education & Research (BER), 101 Best Strategies to Increase Student Learning and Motivation in Biology/Life Science (Grades 6-12), in NH, RI, and NJ, 2017.

Hoosier Association of Science Teachers Annual Convention Presenter on Evolution Demonstrations, Activities, and Labs in the Biology Classroom, Indianapolis, Indiana, 2016.

Hoosier Association of Science Teachers Annual Convention Presenter on Manipulative and Demonstrations in the Science Classroom, Indianapolis, Indiana, 2016.

Hoosier Association of Science Teachers Annual Convention Presenter on Natural Selection and an Activity to Simulate Darwin's Finches, Indianapolis, Indiana, 2013.

National Science Teacher Association Convention Presenter on Anatomy and Physiology Labs and Activities, Indianapolis, Indiana 2012

Hoosier Association of Science Teachers Annual Convention Presenter on Monohybrid and Dihybrid Activities and Introducing Entomophagy, Indianapolis, Indiana, 2010.

Area School Workshop and In-Service Presenter on What Makes a Classroom Webpage and Creating a WebQuest, Bluffton High School, Bluffton, Indiana, 2009.

Hoosier Association of Science Teachers Annual Convention Presenter on Using Analogies and Models to Understand Cell Structures, Indianapolis, Indiana, 2009.

Hoosier Association of Science Teachers Annual Convention Presenter on Motivating Students with Biology Business and Award Cards, Indianapolis, Indiana, 2008.

Hoosier Association of Science Teachers Annual Convention Presenter on Anatomical and Physiological Video Resources on Human Surgeries, Indianapolis, Indiana, 2007.

National Association of Biology Teachers Annual Convention Presenter on Extracting DNA from Human Epithelial Cells, Cincinnati, Ohio, 2002.

National Association of Biology Teachers Annual Convention Presenter on Modeling Monohybrids and Dihybrids, Palais des Congres de Montreal, Canada, 2001.

Hoosier Association of Science Teachers 30th Annual Convention Presenter on Extracting DNA and Proteins, Indianapolis, Indiana, February, 2000.

Instructional Workshop for Indiana Educators Sponsored by the Indiana Department of Education on Designing a WebQuest, Indianapolis, Indiana, July, 1999.

National Science Teacher Association National Convention Presenter on Chronobiology, Las Vegas, Nevada, April, 1998.

Cardinal Ritter High School on Block Scheduling, Indianapolis, Indiana, February, 1997.

Hoosier Association of Science Teachers Annual Convention Presenter on Bio-ethics, Indianapolis, Indiana, February, 1996.

Hoosier Association of Science Teachers Annual Convention Presenter on Biochemistry Labs for the Classroom, Indianapolis, Indiana, February, 1995.

Society of Educators and Scholars 17th Annual Conference Presenter on Developing an Integrative Curricula, University of Southern Indiana, May, 1994.

Publications:

Butler, D. (2022). *Science Strategies to Increase Student Learning and Motivation in Biology and Life Science Grades 7 Through 12*. Page Publishing, Incorporated, Paperback

Philosophical Opinion about the Purpose of Teaching Our Students about Science. *The Hoosier Science Teacher*, Vol. 45 (No. 1), page 1., 2022. Retrieved from <https://scholarworks.iu.edu/journals/index.php/thst/issue/view/2207>.

The Importance of Addressing Biogeography in Secondary Biology Classrooms. *The Hoosier Science Teacher*, Volume 42, No. 2, November 3, 2019, Indiana State University, Terre Haute, Indiana.

101 Best Strategies to Increase Student Learning and Motivation in Biology/Life Science (Grades 6-12) Handbook, Institute for Educational Development, February, 2017, Medina, Washington.

DNA Replication Activity Modeling a Replica of DNA in Somatic Cells, *The Hoosier Science Teacher*, Volume 38, No.3, Spring, 2013 (pp.109-111), Indiana State University, Terre Haute, Indiana.

Sycamore (*Platanus occidentalis*) Fruit Photo for Front Cover of the American Biology Teacher Journal, *The American Biology Teacher*, Volume 73, No. 7, September, 2011.

Extracting DNA from Human Cheek Cells, *The Hoosier Science Teacher*, Volume 29, No. 3, Spring, 2004 (p.85), Indiana State University, Terre Haute, Indiana.

Our Internal Timepiece, *The Hoosier Science Teacher*, Volume 25, No. 1, September, 1999 (pp.23-27), Indiana State University, Terre Haute, Indiana.

The Organic Breakfast Lab, *The Hoosier Science Teacher*, Volume 21, No. 2, December, 1995 (pp. 53-55), Indiana State University, Terre Haute, Indiana.

Making Reading in Science Motivational, *The Hoosier Science Teacher*, Volume 21, No. 1, September, 1995 (pp. 25-29), Indiana State University, Terre Haute, Indiana.

ORGANIZATIONS

Hoosier Association of Science Teachers Incorporated
Indiana Association of Biology Teachers
National Association of Biology Teachers
National Science Teachers Association

OTHER

Classroom Website: www.rm118.com

REFERENCES

Kim Conner
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