

J. Kirk Brown Curriculum Vitae

Education/Credentials:

- Modesto Junior College 81-84 No degree
- C.S.U. Stanislaus 84-86 B.A. Biology
Concentration in
Entomology
- University of the Pacific 86-87 Credential
- University of the Pacific 90-92 M.A. Education
- National Board Certification 2002 Adolescent and Young Adult Science
- CLAD Credential 2007

Research Experience:

- Completed Summer workshops at Exploratorium (Physics) Summer 1990
- Completed Summer workshop in Biotechnology (Sacramento State) T.E.B. SFSU Summer 1993
- Scientific Research Associate, Summer Research Internship Program, Lawrence Livermore National Laboratory: Human Genome Center Dr. Greg Lennon, Mentor. Summer 1994 (Identifying Sequence Tagged Sites).
- Scientific Research Associate, Summer Research Internship Program, Lawrence Livermore National Laboratory: Human Genome Center Dr. Greg Lennon, Mentor. Summer 1995. (Transposon Facilitated cDNA Sequencing)
- Participant in the Human Genome Networking Project at Kansas University Medical Center (Debra Collins Director) 1996, 1997.
- Fellow of the Association of Western Universities at Lawrence Livermore National Laboratory Summer 1997
- Applied Biosystems workshops in Polymerase Chain Reaction 1997 and Mitochondrial Sequencing 2000.
- Joint Genome Institute Microbial Genetics Workshop April 2006

Work Experience:

- 1986 Franklin High School Student teaching
Stockton, CA Biology & Physical Science
- 1987-Present Tracy Joint Union H.S.
I.B. Advanced Biology I 11th, 12th
I.B. Advanced Biology II 11th, 12th
R.O.P Biotechnology
- 1990-92, 2000-Present Department Chairman: Science
- 1993-97 Project Coordinator/ Founding Department
Chair of Tracy's Ag/Sci Academy
- 1994-2000 Assistant Examiner for
International Baccalaureate Higher
Level Biology.
- 1992-97 Mentor Teacher
- 1995-96 Curriculum Integration Mentor for
California Department of Education
in Career/Vocational Education
- 1994-Present Lawrence Livermore National
Laboratory Education Program
Fellow
- 1993-1999 Biotechnology Education Program
(BEP) Steering Committee,
- 1994-97 Member of the Tracy J.U.H.S. District
Curriculum and Assessment Council.

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- 1996- 1999 Member of the D.A.R.T. advisory committee at San Joaquin County Office of Education (Student Research)
- 1987-1999 Diving Coach
- 1987-90, 1999-2000 Water polo Coach
- 1997-Present Consultant for BioRad Labs.
- 2002-Present Lead Teacher Edward Teller Education Center LLNL/UC Davis
- 2002-Present Key Leader: National Science Teachers Association Building a Presence
- 2001-Present Adjunct Instructor: San Joaquin Delta Community College Core Biology (Biology 1) Fundamentals of Biotech. (Bio 40)
- 2003- 04 TEAM Science Project Leader. NSF Grant to bring Grad Students into local schools as mentors.
- 2006 Curriculum Mapping Consultant: Stanislaus County Office of Ed.

Associations:

- California Teachers Association 1987-Present
- Phi Delta Kappa 1993-Present
- National Science Teachers Association 1996-Present
- National Association of Biology Teachers 1987-Present
- California Science Teachers Association Board of Directors 94-95
- Valley Association of Science Teachers (V.A.S.T.) President
Past President
High School
Representative

Select Activities/Presentations (Workshop Timeline upon request)

- Teacher/Presenter at International Baccalaureate Conference, Armand Hammer United World College, Montezuma, New Mexico, summer 1993. Biology teachers from all around World attended.
- Supervised the writing and implementation of the Integrated Curriculum for the Agricultural/Scientific Academy.
- Presented to 50 teachers/educators in Baton Rouge, Louisiana in April 1995 on the implementation of the BEP program in Louisiana.
- Many presentations on Biotechnology via the Biotechnology Education Program at Lawrence Livermore National Laboratory (8 two-day workshops, many single day follow-up meetings, and many promotional talks).
- Many presentations on HIV/AIDS and how to implement an integrated approach to the California Assembly Bill 11 requirements.
- Presented at the California Partnership Academies 1994-95 state meeting on *How to Start an Academy*.
- Presented for Monterey County Office of Education: "Starting Academies, Integrating Science and Agriculture with History and English" to approximately 100 teachers. Oct. 1995
- Consulted on the development of an interdisciplinary curriculum for Southern University in Baton Rouge, LA. Spring 1995.
- Consulted on the development of a three day workshop for the International Science Project with Dr. John Knezovich, L.L.N.L. Summer 1995
- Coordinated the HIV/AIDS awareness week and Integrated Curriculum that is utilized by all three high schools in Tracy Joint Union High School District for the past three years.
- One student won the Junior Science and Humanities Symposium and went to the Nobel Prize ceremonies in Stockholm, Sweden (Sophy Wong).

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- Wrote successful Specialized Secondary School Grants and wrote a successful Multimedia (A.B. 1470) Grant as part of grant writing team at T.J.U.H.S.
- Have marked International Baccalaureate Higher Level Biology exams and written individual school reports as an Assistant Examiner since 1994.
- Conducted a workshop for L.A. Unified for BioRad on Bacterial Transformation and Protein Purification Summer 1997
- Conducted a one week Research Bootcamp for Teachers for Lawrence Livermore National Laboratory Summer 1997
- Presented Transformation and Protein Purification in Minneapolis MN at the N.A.B.T national convention 1997
- Presented at the International Symposia on Green Florescent Protein in New Brunswick NJ for BioRad 1997
- Presented Lessons to teachers/professors at the National University of Singapore Sept. 2000
- Presented Lessons to professors at Fudan University in Shanghai China Sept 2002
- Presented Lessons to professors at Beijing Normal University, Beijing China Sept. 2002
- Presented Lessons to students, teachers in Seoul Korea Sept. 2002
- Presented workshop for students in Whittier Alaska April 2003
- Presented Lessons in Hong Kong, Hongzhou, China 2007
- Presented Hong Kong Polytechnic University July 2008
- Successful NSF GK12 Grant called TEAM Science. I was on grant writing team and Project Leader. Brings local Grad Students into middle and high school classrooms.
- Presented over 350 workshops in 18 states and 3 countries.
- Mentored many students who are now practicing scientists, doctors, teachers, lawyers, and successful in their careers.

Awards:

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| • Crystal Apple award for Teaching | Tracy Joint Union High School District |
| • Golden Apple Awards | Tracy 1993-95 |
| • Honor Science Educator | San Joaquin County Office of Education |
| • Outstanding Certificated Employee of the first Quarter | 1992 |
| • Teacher of the Year for Tracy Unified School Dist. | 1992 |
| • Most Influential Teacher, M.I.T. | 1993 |
| • Most Influential Teacher, U.C. Santa Barbara | 1993,1996,2002 |
| • Most Influential Teacher, U.C. San Diego | 1997,2000,2002,2003,2004,2005 |
| • Access Excellence Award Winner/Genentech, NSTA | 1996 |
| • Sigma XI Outstanding Science Teacher of 1996 | 1996 |
| • California Technology Assistance Project Distinguished Teacher award | 1998 |
| • Valley Association of Science Teachers Peer Recognition Award 1997-98 | 1998 |
| • Wal-Mart Teacher of the Year | 1999 |
| • Milken National Educator Award | 1999 |
| • KXTV 10 Calteach Teacher of the Month (April 2000) | 2000 |
| • Character Recognition Award Tracy Unified S.D. | 2002, 2006 |
| • California's Outstanding Biology Teacher Award (N.A.B.T.) | 2003 |
| • A+ Award San Joaquin Coordinating Council | 2003 |
| • Most Influential Teacher Stanford University | 2004 |
| • Best Of... Tracy's Teachers | 2004, 2005 |
| • Carlston Family Foundation Outstanding Teacher of America Award | 2006 |
| • DiNA Public Service Award from BayBio 2007 Pantheon | 2007 |

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- Cortopassi Family Foundation Outstanding Science Teacher 2008
- Teacher of the Year: Junior Science and Humanities Western Reg. 2008

Advisory Boards:

- *Carlston Family Foundation*
- *California State University Chico College of Natural Science*
- *James Enoch High School Biotechnology*
- *Valley Bio and Science Coalition Education Co-Chair*
- *Independent Committee for the Children of California Richard Riordan Chair*
- *NSF Center of Excellence Education Program Review (Center for Biophotonics at U.C. Davis)*

Keynote Addresses:

- *California State University Fullerton March 6, 2008 Titan Pavilion Future Teachers Keynote Address "Impact that a Teacher can Make"*
- *California State University STAR (Science Teacher and Researcher) Program NASA/Ames Research Center July 2008 "A Personal Perspective on Being a Teacher-Scientist"*
- *Noyce Scholars Western US Conference April 2010 "Being a STEM Teacher in the 21st Century" (Scheduled)*

Publications:

- *Biotechnology Education Project Curriculum*
University of California, Lawrence Livermore National Laboratory 1995
- *Access Excellence* [Http://www.gene.com/AE](http://www.gene.com/AE) Various Laboratory exercises on the AE website.
- *Advanced Learning Opportunities for California's Youth Specialized Secondary Programs: Pages 45-50 Tracy High School's Agricultural/Scientific Academy.* California Department of Education 1997.
- PCR kit for BioRad Labs 1998 release.
- Fish Protein kit for BioRad Labs 2000 release.
- Brown, J.Kirk, *English, Gym, Algebra...Biotech*, The Journal of Life Science pg 68-69 June/July 2008

Personal:

U.S. Citizenship
Married: Lisa
Children: Lynae, Ryan