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## **Professional Summary**

Accomplished National Board Certified science teacher and department chair with extensive experience in educational reform including: facilitating, organizing, and leading reform projects at the school and state level. Experienced in organizing and conducting professional development activities for K-12 teachers; organizing and presenting at small and large group workshops and conferences; developing curricular materials for 7-12 science, university education courses, and portfolio assessments; working collaboratively with K-16 educators and administrators on several reform initiatives, conducting independent and collaborative research projects; writing papers and presenting at local, regional, and national educational conferences.

## **Professional Experience**

### **Administrative**

#### **High School Reform Fellow** RIDE July 2004 to present

- Bill and Melinda Gates Grant work on Diploma assessments:
  - Supervised a statewide network of educators working to create curricular materials for the RI Diploma System Graduation portfolio assessment and assumed responsibility for organizing and presenting at several GATES statewide portfolio network workshops
- Bill and Melinda Gates Grant work for statewide electronic portfolio system:
  - Directed meetings of technology directors, educators, and RINET board members to develop specifications for the statewide electronic portfolio system and coordinated meetings between RINET board members and RIDE members to discuss electronic portfolio support
  - Co-facilitated RFP writing, screening of submitted proposals, interviewing and selecting a vendor, organized a statewide electronic portfolio system vendor presentation conference
  - Presented on a panel at the University of RI, regarding portfolio assessment use in higher ed institutions
- RIDE Technical Assistance work:
  - Wrote and prepared materials for the Technical Assistance Bulletin and High School Diploma System Overview and organized and wrote materials for professional development for high school teachers and administrators at several state wide technical assistance workshops and provided professional development at the University of RI, Skills Commission, RITTI, and RIMLE conferences/workshops
- RIDE Peer Review work:
  - Served on planning committee for Peer Review process and oversaw and planned work of model schools, created peer review materials (criteria and rubric) and facilitated work in preparation for 2005-2006 peer review sessions

#### **Science Department Chair** EWG 1994 to September 1999

- Supervised and articulated writing curriculum for 7-12 science; developed science department budget; purchased, organized and maintained science materials and equipment; interviewed, hired, and mentored new science teachers; scheduled science department personnel and classes; and coordinated and supported science sponsored activities such as Science Olympiad.
- Served on numerous committees including the National Honor Society Faculty council, Scholarship committee, chaired Curriculum Committee for NEASC Accreditation, contract negotiating committee for teacher evaluation, adviser/advisee program and curriculum committee (trained by the Harvard Negotiating Project team), co-authored self-study report for 2000 SALT evaluation, and served on the EWG 7 – 12 Language Arts and writing across the curriculum committee.

#### **Grant Writing** Science Department Chair and SIT

- Wrote and received a Perkins Grant for development of TECH PREP program, Champlin Foundation Grant to acquire multi-media computers for school, grants from Breaking Ranks (The Big Picture Co.) for School Improvement Initiatives, and a SORICO grant for development of Biotech program

**Technology** Experienced user of personal computers of various platforms including Macintosh and Windows, expert user of SPSS for data analysis

- Promoted use of technology and worked with science teachers to integrate computers and other technology into the curriculum. Obtained grant money to increase the available technology in the science department
- Developed and maintained EWG High School Science Web site  
[www.ewg.k12.ri.us/shs/academics/science](http://www.ewg.k12.ri.us/shs/academics/science)

### **High School Reform Work**

#### **RIDE Middle and HS School Reform Fellow**

**July 2004 to present**

- Worked on initiatives to prepare high schools to meet proficiency-based graduation requirements
- Completed extensive writing and editing of portfolio and exhibition toolkit materials - ongoing
- Worked on numerous RI department of Education regulations guidance and technical assistance documents for middle and high schools
  - Created Power point for State Regional meetings, created or edited documents for technical assistance (Applied Learning, FAQs, professional development matrix)
  - Responded to requests from high schools for technical assistance and visited and reviewed high school diploma assessments and implementation plans
- Progressive Support & Intervention: member of the *Using Data for Accountability Action team* to support schools in using data and information to improve and *PS&I Leadership Action team* to support school leadership to successfully implement school reform, prepared school profiles for RIDE face to face PSI meetings.

#### **EWG School Improvement Team and Reform Initiatives**

- Compiled an extensive review of research on block schedule and adviser/advisee, development of block schedule bibliography
- Wrote curriculum for senior project and for adviser/advisee program.
- Development, administration, and analysis of teacher and student survey to study impact of block schedule on school climate, personalization, discipline, and teaching and learning.
- Other Reform associated activities:
- Collected, organized, and analyzed research data on various reform initiatives; developed and presented at faculty in-service training and professional development, presented numerous times to faculty, district administrators, parents, community members, and School Committee members regarding school initiatives for reform, and presentations made in other districts on block schedule and advisor/advisee initiatives

### **Teaching and Instruction**

**Science Teacher - Exeter/West Greenwich High School**

**1990 – June 2004**

Anatomy/Physiology, Applied Biology and Chemistry, Biology, Chemistry, Genetics, Microbiology and Vocational Sciences, 1990 – present. All levels of classes taught including: collaborative special education classes with numerous self-contained students and high ratio of students with extensive IEPs and 504s.

**URI Graduate Instructor** – September 2004 to present EDC574 *Issues in Secondary Education*

#### **Special projects:**

- Developed new courses and corresponding standards-based curriculum (Anatomy/Physiology, Biotechnology, Genetics, Human Body, microbiology, and Vocational Science courses) revised and wrote new curriculum for teaching in extended blocks of time
- Formed partnerships and collaborated with Alton Jones-URI, Save the Bay, GlaxoWellcome, SORICO, and area high schools to establish long-term research projects for high school students.
- Developed a high school biotechnology program with GlaxoWellcome and North Kingstown High school. Responsibilities included presentations of curriculum to state education administrators, college professors, and teachers and supervision of student-run biotechnology conferences at EWG and North Kingstown High Schools

- Established and supervised EWG organic greenhouse, 1994-present. Working partnership with Alton Jones Teaching Farm, 1994-1998. On-site instruction for high school teachers interested in establishing similar project. EWG students, biology and vocational science, research, grow, and sell heritage varieties of plants using organic growing methods.
- Supervised the Save the Bay eelgrass program at EWG, 1999 to 2003. Students participated in ongoing research of growing methods and conditions of eelgrass to re-establish eelgrass beds in Narragansett Bay in collaboration with other RI high schools, Save the Bay, and URI Oceanographic School faculty.
- Collaborated in development of statewide TECH PREP curriculum for Applied Biology and Chemistry program. Supervised initial development of strategic plan and alignment with Rhode Islands and National Science standards (Breaking Ranks summer conference, 1997); promoted and worked to establish the new TECH PREP Biology/Chemistry program in RI High schools; presented at several meetings and workshops for state education administrators, university and college administrators and RI teachers; state co-director 1997-1998
- Collaborated with K-8 science teachers and URI faculty to develop K-6 science curriculum with Southern RI Collaborative schools, 1996
- Mentored new teachers as cooperating teacher for RIC, URI, and Roger Williams, pre-service science teachers; mentor for first-year EWG High School teachers in intensive year-long program
- Collaborated with URI professors to develop rubrics and benchmark graduate student work for NCATE accreditation

**Science Teacher** – Chariho Sr. High and Chariho Middle School

**1989 – 1990**

Taught Chemistry (all levels) and freshmen level physical science at the high school and taught 7<sup>th</sup> grade science for middle school team. Team leader for third quarter of the year; organized team events and projects, led team meetings on a regular basis.

**Other teaching experiences:**

- **GED Tutor** volunteer for Dorcas Place adult literacy program **2001 – 2002**  
Worked with socially and economically disadvantaged single mothers in drug rehabilitation residency program
- **CCRI Part-time instructor** - Warwick and Providence **1993 – 1999**  
Anatomy, Human Physiology, and Genetics - Responsibilities included developing curriculum for genetics course, working with biology faculty to review and rewrite anatomy curriculum, develop anatomy lab manual, departmental exams, and grading policies
- **RITTI Trainer** Providence **Summer 1999**  
Taught computer literacy with the emphasis on integrating technology into instruction to K-12 teachers with varied technology experience (MacIntosh and Windows platforms)
- **Jason Teacher Trainer** at URI Graduate School of Oceanography **1993-1995**  
Presented workshops for K-12 teachers in science content and use of Jason curriculum
- **Teacher-Leader** for Science/Technology program (TECC) at Alton Jones, URI **1991-1992**  
Led and instructed teams of teachers and students to perform long-term environmental studies in RI. Teams of students from several schools communicated using a local network. Project culminated with teams presenting findings to state DEM officials and research faculty from URI
- **NSF Workshop** "Microbiology for Secondary Teachers", Rockville, MD, **July 1992**  
Wrote curriculum for and taught class and lab in basic microbiology and biotechnology concepts and techniques
- **URI Lecturer** –  
Current Trends in Secondary Education (EDC 574) Graduate seminar **September 2004 - present**  
Educational Psychology (EDC 312) **1989 – 1990**  
Kingston and Providence campuses - Coordinated instruction with URI faculty for small group instruction using case study analysis

**Research Experience**

- **Dissertation research** – *The effects of a kit-based science curriculum and teacher characteristics on elementary students' attitude toward science*. Administered achievement test and attitudinal surveys, collected and analyzed in 60 5<sup>th</sup> and 8<sup>th</sup> grade classes in 7 RI districts. Presented research at AERA (San Diego) and NARST (Vancouver) conferences 2004 and AERA (Montreal) and NARST (Dallas) 2005
- **Master's research project** - genetics research utilized molecular biology techniques to study stress-induced mutations in maize

- **Organized and conducted molecular research** - USDA project to study genetic recombination and gene conversion in collaboration with scientists at Yale and URI
- **Conducted research on assessment techniques** used to admit patients with acute asthmatic condition at Rhode Island Hospital emergency room

### Other Employment

**Adjunct Professor URI** EDC574 fall 2004 to present  
**Instructor** part-time, CCRI, Fall 1993 to 1999  
**Instructor** part-time of Educational Psychology, URI, 1989 - 1990  
**Research Associate** in plant molecular lab at URI 1986-1989  
**Graduate Teaching Assistant** for three years in the Botany Dept. URI  
**Respiratory Therapist** at several hospitals in Rhode Island 1979-1982  
**Veterinary Assistant** for six years at the Kingstown Animal Hospital, Wakefield, RI

### Education

**Doctor of Philosophy** – May 2005 URI/RIC Feinstein Doctoral Program “*The effects of a kit-based science curriculum and teacher characteristics on elementary students’ attitude toward science.*”  
**SPSS Training** March 2004 Survey Methodology and Survey Analysis  
**Graduate coursework** Curriculum development  
**National Board Certification** - 2001, Adolescent Young Adulthood Science # C00599952  
**Teacher’s Certification Program**, URI, (Secondary Ed; Biology, General Science, Chemistry) [RI # O36365842], 1989  
**Masters of Science** - Botany, URI "Molecular Studies of Shrunken Mutation in Maize", 1988  
**Bachelor of Science** - Botany, URI, 1983  
**Bachelor of Science** - Respiratory Therapy, URI, 1983  
**Associate Degree** - Respiratory Therapy, CCRI & Rhode Island Hospital, 1980

### Awards

Tandy Corporation *Outstanding Science Teacher Award*  
 1993 American Chemistry Teachers RI Chapter *Outstanding Chemistry Teacher Award*  
 1983 URI Award for *Outstanding Botany Student*  
 1980 CCRI and RI Hospital *Virginia Humolsky Award for Clinical Excellence*

### Professional Associations

American Educational Research Association  
 Association for Supervision and Curriculum Development  
 National Association for Biology Teachers  
 National Association for Research in Science Teaching  
 National Science Teachers Association  
 New England Association of Chemistry Teachers  
 Rhode Island Association of Biology Teachers  
 Rhode Island Science Teachers Association

### References

Ken Fish, Director Middle & HS Reform Office RI Dept. of Education 255 Westminster Street Providence, RI 02903 <a href="mailto:ken.fish@ride.ri.gov">ken.fish@ride.ri.gov</a> (401) 222-84	Betty Young, PhD 710 Chafee School of Education University of Rhode Island Kingston, RI <a href="mailto:byoung@uri.edu">byoung@uri.edu</a> (401) 874-4150 or (401) 874-6007	Denise Boule, Principal EWG Sr High School 930 Nooseneck Hill Rd. West Greenwich, RI 02817 <a href="mailto:bouled@ewg.k12.ri.us">bouled@ewg.k12.ri.us</a> (401) 397-6893 x 10
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