**Bruce L. Rife**

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## NCLB Highly Qualified: Physics, Chemistry, Biology, & Earth Science

## Formal Education

1996 - **University of Alaska** Fairbanks, Anchorage, & Southeast, AK

2011 50 hours of science and professional education courses. GPA of 3.9 on 4.0 scale.

1988 - **University of Northern Colorado** Greeley, CO

1991 Master of Science Interdisciplinary Degree in Secondary Science Teaching

Biology and Chemistry Concentration GPA of 4.0 on 4.0 scale.

1983 - **University of Colorado** Boulder, CO

1986 Teacher Certification plus an additional 48 hours in Biology and Physics.

GPA of 3.9 on 4.0 scale.

1978 - **Colorado State University** Fort Collins, CO

1981 Bachelor of Science Forestry Management Science GPA of 3.2 on 4.0 scale.

**Teaching Experience**

1996 - **Soldotna High School**; Science Teacher; Soldotna, AK

2012 Taught Adv. Placement Biology (even years from 1998-’99 to 2010-‘11), Biology (1997-2007),

Human Anatomy & Physiology (1996-2012), Geology (even years 1996-’97 to 2004-‘05),

Certified Nursing Assistant (1996-2000), Health (1996-’97),

Marine Science (odd years 1999-‘00 to 2011-‘12), and Env. Science (‘97-’98, ‘99-00); Science Dept. Head (‘99-2009), School Site Based Council (1996-’06, president 2003-‘06),

Supervised student teacher (UAA) in Biology (’06-’07); in Geology (’04-’05)

(Kenai Pen. College) in Human Anatomy & Phys. and Biology (Fall ’98)

Coached: Nat. Ocean Science Bowl team (‘02-’08, 2010), Academic Decathlon team (‘96-’02),

Sponsor of National Honor Society (1999-2006, 2009-2011)

2000- **Kenai Peninsula College**; Science Teacher; Soldotna, AK

2012 Taught Certified Nursing Assistant (2000-’01), Medical Terminology (2008-’12)

Life on Earth LSIS 201 (2002-’03, ’04-’05, ’08-‘09) to K-8 pre-teachers

Fundamentals of Biology I & II, BIOL A115L, A116 & A116L (2003-’12)

1986- **Cedaredge High School**; Science Teacher; Cedaredge, CO

1996 Taught A P Chemistry (1990-’91, ‘92-’93, and ‘95-’96), A P Biology (1995-’96),

Physics, Chemistry, Geology, Ecology (1986-’96), Prin. of Technology (1990-’96)

Sponsor of Knowledge Bowl, 1991 3A State Champions (1987-’96),

Sponsor of Science Fair Projects, 1st Place Regional Fair ‘91, ‘93, ‘94, ‘95, & ‘96

Supervised student teacher (Western State College) in Ecology & Chemistry (‘91-’92)

Supervise Rivers of Colorado Water Watch Network, Gunnison River (1992-’96)

1993- **Mesa State College**; Science Teacher; Cedaredge, CO

1994 Taught General Chemistry CHEM 131 and Lab CHEM 131L

(Credit Outreach Program)

1992 **Regis University**; Science Teacher; Delta, CO

Taught General Biology BIO 211 to prisoners pursuing an Associate’s Degree in

Liberal Arts at Delta Correctional Center during Friday evenings

**Professional Development** (the last 7 years of 45 semester hours)

March & Sept. 2006 **Science Content Question Review Workshop**, State Science Exit Exam,

Alaska Dept. of Education & Early Development. UAA Ed 580-2

Jan., 2005 **Fire Science for Educators**; US Fish and Wildlife Service, UAA Ed 580-1

Oct. 2004 **Aeronomy of Ice in the Mesosphere** (AIM), NASA & Hampton Univ.

Alaska Math Science Conference, Fairbanks, AK

July, 2004 **NASA Satellites: CALIPSO, CloudSat and Aura and the GLOBE Program**

Workshop at Colorado State University

Sept. 2003 **Learning Ocean Science through Ocean Exploration**; NOAA, UAA

**Dec. 2002 National Science Teachers Association Area Convention; Albuquerque, NM**

**April 2002 Advanced Placement Biology** – Vertical Team, College Board, Austin, TX

Sept. 2001 **Project Master**, Sea Life Center, Seward, AK, UAA Ed 582-1

June 2000 **Oil & Gas Exploration**, Colorado School of Mines CT 9126-2

**Professional Service**

March 2008 Participant in the **Toyota International Teacher Program** with the

**International Institute of Education** in Costa Rica

Aug., 2006 **Alaska Phenomena Geology Teacher’s Institute** Coordinated through Challenger

Learning Center of Alaska and co instructed an earth science teacher workshop.

2005 - 2006 e**-Mentoring for Student Success, eMSS Project**, NSF grant awarded to NSTA,

Alaska science mentor

2004 & 2007 **Alaska Math and Science Conference** in Fairbanks, AK Coordinated and co instructed

how to use a point and click web site maker available at McGraw – Hill Learning Network

Oct., 2004 **NASA Atmospheric Satellite / Globe** Coordinated through Challenger Learning Center

of Alaska and co instructed an atmospheric science teacher workshop.

2002 - 2003 **No Child Left Behind Highly Qualified Teachers Task** Force Alaska Dept. of Education

& Early Development. The NCLB Task Force developed the “Highly Qualified” HOUSSE

June 2000 **Ship’s Log II: Writing in Science for the 21st Century** Coordinated through Alaska State

Writing Consortium and co instructed a writing and marine science teacher workshop.

April 1999 **Kasitsna Bay II** Coordinated through POLARIS and co instructed a marine science teacher

workshop at the UAF Kasitsna Bay research station.

1997 - 2006 Board of Directors for **Challenger Learning Center of Alaska**, president 2005 - 2006

2002 - ’03,’07-‘08 **Kenai Peninsula Borough School District Science Curriculum Committee**

1996 - 1999 **POLARIS** Project on Leading Alaska Restructuring in Science funded by NSF

**Awards, Grants, Professional Organizations**

2009 - ’10 Wrote and administered $40,000 **KPBSD Technology Integration Project–Stimulus Grant**

2006 - ’07 Recipient of the **Siemens Award for Advanced Placement**

presented by the **Siemens Foundation and the College Board**

2001 - ’03 Wrote and administered $10,000 **Advanced Placement Incentive Program Grant (APIP)**

and $6000 **NASA / US FIRST Robotics Grant**

2001 Recipient of the **Milken National Educator Award**

1999 - 2000 Recipient of the **Teacher of the Year for Alaska Excellence in the Teaching of**

**Natural Resources in the Earth Sciences**  presented by The Alaska Geological Society

1998 - ’99 Recipient of the **Outstanding Biology Teacher Award for Alaska**

presented by the National Association of Biology Teachers

1998, ‘00, ’02, ’04, ’05, 2006 **Who’s Who Among America’s Teachers**

1984 - 2012 Member of **National Science Teachers Association**.

2000 - 2012 Member of **Alaska Science Teachers Association**, at large board member 2005 - ‘11

1984 - 1995 Member of **Phi Delta Kappa**, Professional Fraternity in Education

1991 Published and presented paper Ecology of Mancos Shale Badlands in Western Colorado

at the **Colorado - Wyoming Academy of Sciences** in April;

received award for best graduate paper.