

# GREGORY LOUIE

c/o Gravelly Hill Middle School, 4801 W. Ten Rd. Efland, NC 27243 ext. 32601

[gregory.louie@orange.k12.nc.us](mailto:gregory.louie@orange.k12.nc.us)

## Scientist/Teacher/Mentor/Web Designer

Enthusiastic science educator dedicated to capturing the hearts and minds of the next generation of scientists.

- ◆ Award Winning Educational Website Designer, 2006 & 2009 Best Teacher Website Award (NC TIES)
- ◆ Project Lead Manager – NCCCS/OCS middle school biofuels curriculum development
- ◆ 13+ years teaching experience (including Biology, Chemistry, Physical Science & Authentic Science Research)
- ◆ 2 years mentoring high school science research students ( 4 National Science Competition Winners)
- ◆ 10+ years in biomedical research (Neurobiochemistry, Metabolic Diseases)
- ◆ Student campaign facilitation: “Save the Rainforest” T-shirt campaign raised over \$2300 in two weeks

### *Relevant Teaching Experiences*

2007-on	Project Lead Manager, Biofuels Curriculum Development, BioNetwork BioProcessing Center
2006-on	Exploring Biotechnology Teacher, Gravelly Hill Middle School
2005-2006	Honors Biology Teacher, JD Clement Early College High School
2004-2005	Chemistry and Life Science Teacher, Soundview Preparatory School
2001-2003	Adjunct Professor, University in the High School Program SUNY Albany
2000-2003	Science Research and Biology Teacher, John Jay High School
1995-2000	Science Teacher, Xavier High School: Biology, Chemistry, and Physical Science
1982-1984	Graduate Teaching Assistant, Department of Biology, University of Cincinnati

### *Science Research Experiences*

2003-2003	Graduate Research Student, Center for Initiatives in Pre-College Education Rensselaer Polytechnic Institute
2000-2000	Research Scientist II, Department of Molecular Biology NYS Institute for Basic Research in Developmental Disabilities
1992-1995	Assistant Laboratory Director, Inborn Errors of Amino Acid Metabolism Laboratory NYS Institute for Basic Research in Developmental Disabilities
1987-1992	Research Scientist II, Laboratory of Neurobiochemistry NYS Institute for Basic Research in Developmental Disabilities
1986-1987	Research Technician II, University of Cincinnati Protein Sequencing Core Facility

### *Education*

2003	Rensselaer Polytechnic Institute, MS Natural Sciences
1982	University of Cincinnati, Dept. of Chemistry, B.S. with Honors

### *Recent Projects, Grants, Awards & Activities*

2009	Scholarship for Learning Progressions in Science (LeaPs) Conference, Iowa City
2009	Best Teacher Web Site Award, NC Technology In Education Society
2009	Teacher Participant – Harvard’s River City Project
2009	Teacher Participant – Federation of American Scientist’s Immune Attack Evaluation
2009	NC Student Science Academy Judge: Session 22: High School Biology and Advanced Biotechnology
2009	Invited member of the Biofuels Center of NC Convening on Education
2008	Biogen-Idec Grant Award: “Probeware Repository for Middle School Math, Science, Biotech and Engineering”
2008	Biofuels Curriculum Development, a collaborative project between NC Community College System’s BioNetwork and Orange County Schools

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## RESUME ADDENDA

### *Presentations*

2008	Guest Lecture: "A Vision for Teaching Today," Duke Univ. Masters of Teaching Program
2002	Seminar: "Empirical & Scientific Thinking", Center for Pre-College Initiatives in Education
2000	Workshop: "Math Made Easy", Apartment House Institute
2000	Workshop: "Powerful Presentations in PowerPoint", Children's Aid Society
2000	Workshop: "Learning Science with Technology", NY Province Teachers Conference
1999	Workshop: "Automated Web Page Creation", Xavier High School

### *Web Presence*

Website	Exploring Biotechnology <a href="http://www.teacherpages.com/webpages/mrglouie">http://www.teacherpages.com/webpages/mrglouie</a>
Blog	Why Not Save the World? <a href="http://gregorylouie.edublogs.org">http://gregorylouie.edublogs.org</a>
Class Blog	Exploring Biotechnology & Global Issues <a href="http://classblogmeister.com/blog.php?blogger_id=144005">http://classblogmeister.com/blog.php?blogger_id=144005</a>
Twitter	<a href="http://twitter.com/gregorylouie">http://twitter.com/gregorylouie</a>
Ning	Biotechnology and Scientific Visualization <a href="http://thesynapse.ning.com/group/biotechnologyscientificvisualizations">http://thesynapse.ning.com/group/biotechnologyscientificvisualizations</a>

### *Professional Development*

#### **NC Technology In Education Society 2009 Conference**

Extreme Makeover: Classroom Edition, 7 Steps to Flattening Your Classroom, Challenge-Based Learning, Implementing Challenge Based Learning in the Classroom, Building Learning Communities: Projects for the Global Classroom Connection, Stay in Touch - Apple's iPod Touch in Education, Teaching and Learning in a 3D Virtual Immersive World, Using iPod Touch Mobile Computers, Enhancing... and Disrupting... Teaching and Learning, Learning in Virtual Worlds: An Educator's Primer, The Extreme Makeover of the Paper Trained Teacher in a Video Game World

#### **UNC's Destiny**

BioBusiness, Weigh-to-Go

#### **Triangle High Five Regional Partnership for High School Excellence**

Developing Professional Learning Communities

#### **15<sup>th</sup> Biennial Conference on Chemical Education**

Photodynamic Therapy: From Vampires to a Cure for Cancer; Small Wonders...Big Discoveries: Eye-catching demonstrations guaranteed to stimulate inquiry; "Science in Motion" - a model science outreach program; Simulations and Interactive Resources (SIRs), Games, and Tutorial Lessons; Visualizing chemistry; Microscale Gas Chemistry: Generating Gases in Large Syringes; Using Notebooks to Teach Study and Organizational Skills; ChemQuest: Learning High School Chemistry with Inquiry and Technology; Signature Demonstrations

#### **The Foundation Center**

Grant Seeking Basics; Guide to the Resources on the Foundations Center Website; Proposal Writing Basics; Proposal Budgeting Basics

#### **Foundation for Critical Thinking**

Foundational Workshop: An Introduction to the Fundamentals of Critical Thinking

#### **Eisenhower Mathematics and Science Program**

Leadership Program in Environmental Responsibility and Awareness

#### **Yestermorrow Design Build School**

Ecological Design and Living Systems

### *Professional Certifications, Affiliations, Activities, Publications & References*

Available on request