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Inside this Issue

- 1** IYC Grant Recipients
- 1** St. Mary's High School
Worcester, MA
- 1** Palma School
Salinas, CA
- 2** Community Activities Grant Recipients
- 2** New ChemClubs
- 2** Nazareth Academy
Philadelphia, PA
- 2** Lakeland High School
Lakeland, FL
- 3** Valley Central High School
Montgomery, NY
- 3** Lakeville South High School
Lakeville, MN
- 3** Davis High School
Houston, TX
- 4** Global Water Experiment Participants and Pictures

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ChemClub Happenings

IYC Grant Recipients

Congratulations to the recipients of the ChemClub International Year of Chemistry (IYC) Grants:

Arlington High School, Riverside, CA—"Solar Hydrogen Fuel Cell Car Technology"

Auburndale High School, Auburndale, FL—"The IYC Water, Chemistry and Our Health"

East Syracuse-Minoa High School, East Syracuse, NY—"International Food Chemistry"

Highland High School, Palmdale, CA—"What Chemists Do to Make Water Safe for Drinking"

Lane Tech College Prep High School, Chicago, IL—"Fall Into Chemistry"

Maine East High School, Park Ridge, IL—"Student-led Demos at Chicago Area Locales"

Pacifica High School, Oxnard, CA—"World Water Monitoring Day @ Beach Cleanup"

Richard King High School, Corpus Christi, TX—"The International Year of Chemistry Mural Contest"

Saint Mary's High School, Worcester, ME—"Marie Sklodowska Day"

Upper Dauphin Area High School, Elizabethville, PA—"Chemistry Day at Upper Dauphin Elementary"

Valley Central High School, Montgomery, NY—"Manya: A Visit with Madame Curie"

Marie Sklodowska Day

St. Mary's High School, Worcester, Maine, celebrated Marie Sklodowska Day on her birthday, November 7. Throughout the day, students celebrated Marie Curie's (nee Sklodowska) life by having class discussions: history classes discussed her biography, while the English classes looked at her writing and favorite quotes. The science classes did a half-life lab and made solar handprints. The Mole Society (ChemClub) put up a bulletin board and wore glow stick bracelets in her honor.



IYC Periodic Table

The ChemClub and chemistry classes of Palma School, Salinas, Calif., celebrated the IYC by creating a very large periodic table. The students created a product based on each element and the theme, "How to Address the Issues Affecting Today's Society i.e., Famine, Poverty, Sickness". The Advanced Placement students and ChemClub members assembled all the 2'x2' panels. The entire project took over 150 hours to create, produce and assemble the 16'x38' periodic table.



Community Activities Grant Recipients

Congratulations to the recipients of the ChemClub Community Activities Grants:

Ardrey Kell High School, Charlotte, NC—“Chemistry Demonstrations for Elementary School”

Arlington High School, Riverside, CA—“Water Wise Guys”

Auburndale High School, Auburndale, FL—“Green Energy”

Downingtown East High School, Exton, PA—“Science Buddies”

East Syracuse-Minoa High School, East Syracuse, NY—“Food Chemistry is the Spice of Life”

George Washington High School, Denver, CO—“Community School Visits”

Grosse Pointe North High School, Grosse Pointe Woods, MI—“Chemistry Outreach Program”

Hall High School, West Hartford, CT—“Chem4Kids”

Hollis Brookline High School, Hollis, NH—“Halftime Show”

John Hardin High School, Elizabethtown, KY—“ChemClub High School and Elementary Mentorship”

Lakeland High School, Lakeland, FL—“Chemistry in Art: Materials and Processes”

Lakeville South High School, Lakeville, MN—“Lakeville South Spectacular Science Show”

Lane Tech College Prep High School, Chicago, IL—“Mass Does Matter”

Lenape High School, Medford, NJ—“Science Fun 4 Families”

Maine East High School, Park Ridge, IL—“Student-led Demos at Chicago Area Locales”

Northwest Pennsylvania Collegiate Academy, Erie, PA—“Chemistry Day”

Otselic Valley Jr-Sr High School, South Otselic, NY—“The Chemistry of Hydroponics”

Pacifica High School, Oxnard, CA—“The Amazing World of Chemistry”

Palmer High School, Colorado Springs, CO—“Creating Chemical Curiosity-Taking Chemistry to the Community”

Pompano Beach High School, Pompano Beach, FL—“After School Elementary Chemistry Activities”

Rutherford High School, Panama City, FL—“Hurray for Science Day”

South Pike High School, Magnolia, MS—“Chemistry is a Fun Day”

University High School of Indiana, Carmel, IN—“Sharing Chemistry Connected to NCW with St. Richard’s Students”

Upper Dauphin Area High School, Elizabethville, PA—“Community Science Literacy Night”

Valley Central High School, Montgomery, NY—“Manya: A Visit with Madame Curie”

Van Alstyne High School, Van Alstyne, TX—“ChemClub Demonstration for Middle School”

Visitation Academy, St. Louis, MO—“Starting a Composting Program”

New ChemClubs

Welcome to the ChemClubs who joined between January and February:

Connecticut

Ruben S. Ayala High School

Connecticut

Masuk High School

Florida

Pine Castle Christian Academy

Massachusetts

Somerville High School

Michigan

Cesar Chavez Academy High School

Minnesota

Burnsville High School

Montana

Chester-Joplin-Inverness Public Schools

New Jersey

Hoboken High School

New York

Valhalla High School

West Virginia

Magnolia High School

Wisconsin

Milwaukee High School of the Arts

Gummi Bear Experiment



The Nazareth Academy ChemClub, Philadelphia, Pa., celebrated Mole Day 2011 by performing the Gummi Bear experiment to demonstrate exothermic reactions. As you can see, they had a great time watching the Gummi Bears explode!



Redox Ornaments



Lakeland High School, Lakeland, Fla, created redox ornaments, around the holidays, as part of their year-long theme “Chemistry in Art”.

One of the art teachers showed her artwork based on acid-etched metal, to the students before the lab.



Manya: A Conversation with Madame Curie



Valley Central High School ChemClub, Montgomery, N.Y., hosted Susan Marie Frontczak and her one-woman show, *Manya: A Conversation with Madame Curie*.

Set in 1915, the drama covered everything from the political oppression of Curie's childhood to the world prominence that resulted from her scientific discoveries of radium and radioactivity. Frontczak's program was designed to honor not only a preeminent woman of science but also the ethic of scientific altruism.

After the performance, Frontczak stayed in character as she took questions from the audience.

Frontczak left the students with a powerful message drawn from Curie's life.

"There is no better definition of bravery than pulling yourself together when you feel like giving up. I hope that when and if something tough happens to you, you'll remember Marie Curie's story."

—Adapted from an article by Jessica Mcaleese



The ChemClub tied this performance to the 100th anniversary of Jell-O and the International Year of Chemistry. They made Jell-O for the reception following the performance, in recognition of the dessert creation that coincided with the Curie's work in Paris.

Selected comments from the students:

"You can only get so much information by reading about someone. Watching her gave me a real understanding of what her life was like."

"I think it is hard to relate to a scientist when all you know of is their experiments, and learning about both Marie's hardships and successes was very interesting."

"I was blown away with how amazing I found it to be. The way it was put on made me feel as if I was really in the presence of Madame Curie."



Lakeville South Demonstration Day

On Friday, December 2, 2011, Lakeville South High School, Lakeville, Minn., held a demonstration show for all ages. The students shared their knowledge of thermodynamics, kinetics, acid and bases, vacuums and high pressure, while relating the science to *Star Wars*. The audience was able to enjoy an evening of rainbow liquids, vortex cannons, frothing bubbles, colorful flames and luminescent solutions.



Holiday Recycling Tree



The Science Club at Jefferson Davis High School, Houston, Texas, designed a holiday tree for their school's common area. The tree was constructed from aluminum cans that the Science Club collected and recycled.

The club's president, Oscar Rivera, and its vice president, Bria Washington, asked that the school continue to help them recycle, and to admire the work the students have done.

Remember to recycle!

Global Water Experiment

These schools participated in the Global Water Experiment during the International Year of Chemistry:



Arizona

Desert Mountain High School

California

Castro Valley High School
Cosumnes Oaks High School
Highland High School
La Costa Canyon High School

Colorado

The Classical Academy

Connecticut

Lyman Memorial High School

District of Columbia

Benjamin Banneker Academic High School
McKinley Technology High School
Washington International School
Woodrow Wilson High School



Florida

Auburndale High School
Boca Raton Community High School
Lakeland High School
Pompano Beach High School
South Fork High School

Georgia

Rabun Gap Nacoochee School
Toombs County High School

Illinois

Edwardsville High School
Lane Tech College Prep High School



*Niles West High School
*Ottawa Township High School

Indiana

New Palestine High School

Iowa

Iowa City West High School

Kansas

*Cheney High School

Kentucky

John Hardin High School



Massachusetts

Billerica Memorial High School
Newton Country Day School
St. Mary's High School
Westborough High School

Michigan

Chesaning Union High School
Great Lakes Adventist Academy
International Academy East

Mississippi

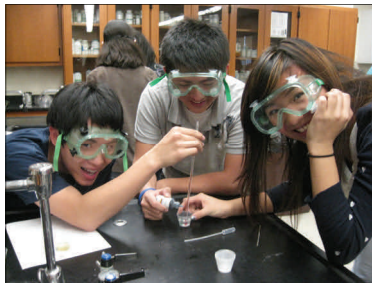
South Pike High School

Missouri

Francis Howell High School
St. Joseph's Academy

Nebraska

Millard North High School



New Hampshire

Hollis Brookline High School

New Jersey

*Cresskill High School
*Lenape High School
Plainfield High School
Point Pleasant Borough High School
River Dell High School
Wisniewski Home School

New York

Geneva High School
John C. Birdlebough High School
Newburgh Free Academy
Preston High School
Valley Central High School

North Carolina

Mazur Home School
North Raleigh Christian Academy
T Wingate Andrews High School

Ohio

*Campbell Memorial High School
Magnificat High School

Pennsylvania

*Carmichaels Area High School
Conestoga High School
Nazareth Academy High School

Puerto Rico

Colegio Rosa-Bell
Ponce High School

Rhode Island

Chariho Regional High School
Mount Pleasant High School

South Carolina

Fort Mill High School

Tennessee

Donelson Christian Academy

Texas

Claudia Taylor Johnson High School
Lamar High School
Liberal Arts and Science Academy
Southwest High School
Spindletop Christian Homeschool Assoc.
St. Mark's School of Texas
Vanguard College Preparatory School

Virginia

Bruton High School
Gate City High School

Wisconsin

Lourdes High School
Port Washington High School

*Indicates schools with pictures on this page

