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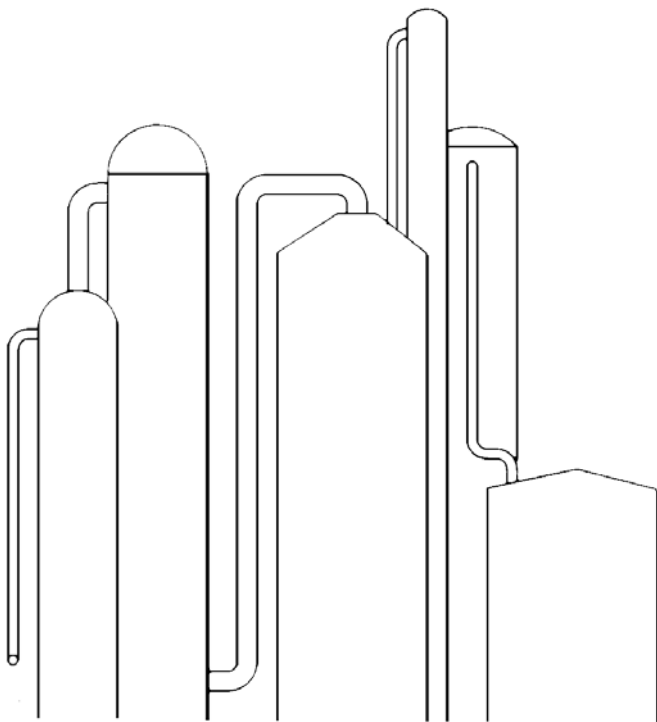
JUNE 2009

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48th Regional Buyer's Guide

See pages 18-27.



**Nichols Medal Report and Pictures
See pages 10-11.**

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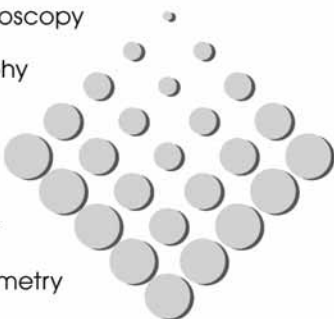
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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.

June Calendar

NEW YORK SECTION

Thursday, June 4, 2009

Chemical Marketing & Economics Group

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Friday, June 5, 2009

New York Section Meeting

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Friday, June 5 and Thursday, June 9, 2009

Long Island Subsection

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NORTH JERSEY SECTION

Thursday, June 4, 2009

Careers in Transition

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Friday, June 5, 2009

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Tuesday, June 9, 2009

Teacher Affiliates Executive Committee

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***The Indicator* is posted to the web
on the 15th of the previous month
at www.TheIndicator.org**

**Deadline for items to be included in the
September 2009 issue of *The Indicator*
is July 15, 2009.**

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THIS MONTH IN CHEMICAL HISTORY

By Harold Goldwhite, California State University, Los Angeles, hgoldwh@calstatela.edu

In the first of this two-part series on Max Planck, I sketched his career to the point where, in 1897, he began to work on explaining the phenomena of black-body radiation, a problem that had challenged some of the best physicists of the day and that they had failed to solve. At first, he tried combining electrodynamics and thermodynamics, but Boltzmann correctly criticized Planck's formulation. Planck then successfully combined Wien's work with that of Rayleigh and Jeans, but a satisfactory physical explanation was still lacking.

When Planck tried to apply Boltzmann's statistical formula for entropy to the problem, he found he had to assume that the enclosure walls were composed of electrodynamic oscillators, which could only emit energy that was not infinitesimally variable but was connected to the oscillator frequency by the now-famous formula $E = hn$, where h is what Planck called a quantum of action. Later generations dubbed it Planck's constant. Planck obtained a value for h from experimental data that is close to the currently accepted value. He introduced these new ideas in two presentations to the German Physical Society in Berlin on October 19 and December 14, 1900. Their impact was to be felt throughout 20th-century science.

At first, however, Planck's novel view of radiation, while it was agreed to be interesting, was viewed as a kind of formalism: a way of accounting for the data without necessarily providing a fundamental physical explanation of the phenomena underlying it. Boltzmann was impressed, and Planck himself is supposed to have told one of his sons that he had made a discovery that was in the class of one of Newton's. But he was still trying classical approaches to the problem until finally, toward the end of his career, he wrote: "My vain attempts to somehow reconcile the elementary quantum with classical theory continued for many years and cost me great effort. ... Now I know for certain that the quantum of action has a much more fundamental significance than I originally suspected."

That significance was first postulated by the obscure patent clerk in Switzerland, Albert Einstein, in his wonder year of 1905. He broadened the quantum approach to radiation by applying it to all radiation, inventing the photon as a particle of radiation—a collection of which sometimes behaves as a wave! Planck trumps Maxwell. With this revolutionary idea, Einstein was able to explain another familiar physical phenomenon, originally described by Hertz, which like black-body radiation had eluded the net of classical physics, namely, the photoelectric effect. Quantum theory was on its way to being accepted as one of the great foundational ideas of science, and Planck was awarded the Nobel Prize for Physics in 1918 and received many honorary degrees and fellowships.

Planck's personal life was not easy. His first wife, with whom he had four children, died in 1909, and three of those children died during World War I, a son at the Front and two daughters in childbirth. He remarried and had another son. When Hitler came to power in 1933, Planck was 75. He accepted the Presidency of the Kaiser Wilhelm Society (now known as the Max Planck Society), hoping to modify the views of the new Fuhrer toward some scientists, but in vain. Planck's surviving son from his first marriage, Eric, was executed by the Nazis for his part in the July 1944 plot against Hitler. The Planck family house was destroyed during the bombardment of Berlin, but Planck was escorted by American forces to Goettingen in West Germany, where he lived until his death on October 4, 1947, just a few months short of his 90th birthday.

This article has been greatly aided by the following sources: *A Biographical Dictionary of Scientists*, Trevor I. Williams, Ed., Wiley, 1982; *From X-rays to Quarks*, Emilio Segre, Freeman, 1980; and *The Strange Story of the Quantum*, Banesh Hoffmann, Dover, 1959.

JUNE HISTORICAL EVENTS IN CHEMISTRY

by *Leopold May*, The Catholic University of America, Washington, DC

June 1, 1907

Frank Whittle designed and patented a jet aircraft engine. Hans von Ohain and Sir Frank Whittle are both recognized as being the co-inventors of the jet engine.

June 4, 1834

One hundred and seventy-five years ago, Jacob Volhard was born. He did research in organic synthesis, including creatine, brominated organic acids, and thiophene compounds.

June 6, 1943

Richard E. Smalley, research in supersonic beam laser spectroscopy; discovered fullerenes; Nobel Prize (1996) with R. F. Curl and H. W. Kroto for their discovery of fullerenes.

June 7, 1811

James Y. Simpson, an obstetrician who was first to use chloroform as an anesthetic and introduced the use of ether in Great Britain.

June 10, 1832

Nikolaus A. Otto invented and patented four-stroke internal-combustion engine (first practical alternative to steam engine as a power source).

June 13, 1923

Lloyd Conover, invented tetracycline; US patent 2,699,054.

June 14, 1965

The paper "Hard and Soft Acids and Bases" by Ralph G. Pearson, which was published in the Journal of American Chemical Society (1965, 83, 3533), was received on this date.

June 16, 1897

Georg Wittig, a researcher in conversion of C=O to C=C (Wittig reaction), was born. He shared the Nobel Prize of 1979 with Herbert C. Brown for their development of the use of boron- and phosphorus-containing compounds, respectively, into important reagents in organic synthesis

June 18, 1870

Charles Baskerville developed processes for refining & hydrogenation of oils, plastic compositions, & reinforced lead; researcher in anesthetic chemistry.

June 20, 1944

L. B. Magnusson and T. J. La Chappelle isolated first microscopic quantity of compound of neptunium (Np, 93) at wartime Metallurgical Laboratory at University of Chicago.

June 23, 1775

Two hundred years ago in 1809, Etienne-Louis Malus discovered the polarization of light. The next year, he developed the theory of double refraction of light in crystals and was born on this date.

June 25, 1864

Walther H. Nernst, who was born on this date, elucidated the theory of galvanic cells in 1889. In the same year; he derived equations by which solids precipitate from saturated solutions. Seven years later, he discovered the 3rd Law of Thermodynamics. He developed an atomic chain reaction theory, 1918, an improved electric lamp (Nernst lamp) and an electric piano (which did not gain acceptance of musicians). In 1920, he received the Nobel Prize in recognition of his work in thermochemistry.

June 26, 1694

Georg Brandt, discovered cobalt (Co, 27), 1735; one of the first chemists to abandon alchemy as a science.

June 27, 1909

One hundred years ago, Arthur Clay Cope was born. He was a researcher in synthetic organic chemistry including medium-sized ring compounds.

June 28, 1825

Richard A. C. M. Erlenmeyer, researcher in synthesis of aliphatic compounds, isobutyric acid & guanidine; invented "Erlenmeyer" flask.

Additional historical events can be found at Dr. May's website, <http://faculty.cua.edu/may/Chemistrycalendar.htm> or This Week in Chemical History on the ACS website, <http://www.acs.org/whatischemistry>.

New York Meetings

www.newyorkacs.org

ACS NEW YORK SECTION MEETINGS FOR 2009

The Board of Directors Meetings for the New York Section in 2009 are as follows:

Friday, June 5, 2009

September 11

November 13

The regular Board Meetings will be held at St. John's University, 8000 Utopia Parkway, Jamaica, NY. These meetings are open meetings and all are welcome. If you are not a member of the Board of Directors and wish to attend please inform the New York Section Office at 516-883-7510 or njesper1@optonline.net.



CHEMICAL MARKETING & ECONOMICS GROUP

Finding the Upside in the Downturn

Speakers: Eric Vogelsberg
Senior Vice President and
Global Practice Leader
Chemicals & Materials
Kline & Co.

and

Tom Aldred
Director of Performance
Improvement
Kline & Co.

The chemicals industry is no stranger to business cycles. But this downturn arrived four years too early. The cratering of demand led by automotive and construction is exerting severe downward pressure on capacity and headcount. Even lipstick sales fell 5%, invalidating the 50-years old Lauder theory that in tough times, consumers turn to affordable indulgences like cosmetics. Mergers groaning under out-size debt burdens and financial exits that counted on rosy earnings face grim choices. Demand recovery from a downturn at least as deep as the one in 1982-83, is several years away.

Sudden and severe impacts such as this, wipe out dinosaurs and make room for new species. What is the new climate going to be, and what will make for survival? Kline

will share their perspective on how to find the upside in the downturn and what chemical companies need to do to weather the current global economic downturn.

Speakers: Eric Vogelsberg is Senior VP at Kline & Company with responsibility for the management and growth of the firm's Chemical and Materials Practice, and Kline's M&A activities supporting clients in growth and diversification. During his 25 years with Kline, Eric has assisted clients in the development of creative, pragmatic strategies for growth and performance, and has been directly involved in many completed chemicals M&A deals and post deal integration activities. Prior to Kline, Eric was with Hercules in their Electronic and Printing Products Division, and earlier, with the Harshaw Chemical Company, now part of Arkema. He is a frequent contributor to Chemical Week and ICIS Chemical Business. He holds an MBA in Chemical Marketing from Fairleigh Dickinson University and a BS in Chemistry from St. Francis College, NY.

Tom Aldred is a director in Kline Management Consulting's strategy practice at Kline's headquarters in Little Falls, NJ. His projects in global strategy development, performance improvement, and market research over the last 12 years have been in diverse industries such as paper, metals, chemicals manufacture, inks/coatings, rubbers/plastics and restaurants. Prior to Kline, Tom was with Accenture's Solution Engineering and Strategy and Business Architecture practices, and at National Starch and Chemicals in the adhesives division. Tom has a BS in chemical engineering from The Pennsylvania State University.

Date: Thursday, June 4, 2009

Times: Cocktails 11:30 AM

Luncheon 12 noon

Presentation 1:15 PM

Place: Club Quarters

40 West 45th Street

(between Fifth and Sixth Avenues)
New York, NY

Cost: \$45 for Members who reserve by
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**LONG ISLAND SUBSECTION —
JOINT MEETING WITH
DOWLING COLLEGE**

**National Science Foundation
Symposium**

Featuring: Dr. Paul Bishop

Keynote Speakers: Robert J. Gaffney
President
Dowling College

Hon. Steve Israel
House of
Representatives
(To be confirmed)

Dr. Paul Bishop, program director from the National Science Foundation, will lecture from his personal research and findings related to the topics of science and the environment. Additionally, Dr. Bishop will provide an insiders' view on the prospects of grant making and seeking as well. Dr. Bishop will be available for 1 on 1 fifteen minute meetings to be scheduled between the hours of 2:00 PM and 4:00 PM. Robert J. Gaffney and Representative Steve Israel will speak on science research and technology and its relationship to Higher Education. Light refreshments will be served.

Date: Friday, June 5, 2009
Time: 9:00 AM – 11:30 AM

Place: Fortunoff Hall Ballroom
Dowling College
Oakdale, NY



LONG ISLAND SUBSECTION

LI-ACS High School Award

Awards will be presented to students receiving the highest mark in chemistry from Suffolk, Nassau and Queens high schools. Dinner is followed by an Awards ceremony at which each nominee is presented with a plaque by the Chair of the Long Island Subsection.

This event will feature a seminar by Dr. Denton Ebel of the American Museum of Natural History who will speak about meteorites and their formation and properties.

Date: Thursday, June 9, 2009

Time: 6:00 PM

**Place: St. John's University
University Center Bldg.
The Commons Room**

Contact: Ralph Stephani at
stephanr@optonline.net or 718-990-5215.

For more information, visit the LI-ACS website at http://www.newyorkkacs.org/sub_island.html.

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SISTER MARY VIRGINIA ORNA RECEIVES ACS AWARD FOR VOLUNTEER SERVICE

On March 24, 2009, Sister Mary Virginia Orna of The College of New Rochelle was honored with the ACS Award for Volunteer Service to the American Chemical Society. Dr. Janan M. Hayes of the ACS Board of Directors presented the award at the 2009 Awards Program Ceremony and General Meeting of the Society. Sister Orna received the ACS award "For her unstinting service to the ACS, its Council and committees, the Divisions of Chemical Education and the History of Chemistry, her students and colleagues, and humanity." The ACS New York Section congratulates Sister Mary Virginia Orna and appreciates her continuing dedication to the Society.

Sister Orna is presently Professor of Chemistry at the College of New Rochelle. She received her education first at Chestnut Hill College and her graduate studies were done at Fordham University in analytical chemistry. She has lectured and published widely in the areas of color chemistry and archaeological chemistry. She has presented plenary lectures and named lectureships on at least a dozen different occasions. She is a tour speaker on the roster of the American Chemical Society and has been an invited lecturer to every part of the United States and many countries in Europe and the South Pacific. Her more than 60 papers have appeared in the Journal of Chemical Education, Color Research and Application, Studies in Conservation, Analytical Chemistry, Microchemical Journal, Journal of

Biological Chemistry, American Chemical Society monographs, and various other journals. She has also authored numerous book chapters and encyclopedia articles, three books and co-edited six others.

Sister Orna's ACS activities include serving on all elected Council committees and on other committees, i.e. the Society Committee on Education, Divisional Activities Committee and the Committee on Meetings and Expositions. She is active in several divisions of the American Chemical Society, having served as Chair, Program Chair and Treasurer of the Division of the History of Chemistry. She is currently serving as ACS Councilor and a member of the ACS Council Policy Committee.

She received various awards: e.g. the Chemical Manufacturing Association's Catalyst Award for excellence in college chemistry teaching, the 1989 CASE (Council for the Advancement and Support of Education) New York State Professor of the Year, National Gold Medalist Award, a recipient of the 1989 Merck Innovation Award, the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry, ACS 1999 George C. Pimentel Award in Chemical Education, the 2008 Henry Hill Award, and the ACS 2009 Award for Volunteer Service.

As a hobby, Sister Mary Virginia enjoys constructing crossword puzzles and has been a frequent contributor to the Sunday New York Times, SciQuest, Clinical Chemistry News, American Laboratory, Today's Chemist and other publications.



From the left: ACS President-Elect Dr. Joseph Francisco, Dr. Janan Hayes of the ACS Board of Directors, Sister Mary Virginia Orna, and ACS President Dr. Thomas Lane.

2009 WILLIAM H. NICHOLS MEDAL

The 2009 William H. Nichols Medal of the ACS New York Section was presented to Professor Carolyn R. Bertozzi of the University of California, Berkeley, at the Crowne Plaza Hotel, White Plains, NY on Friday March 13 2009. This is the 103rd Nichols Medal to be presented for distinguished research in chemistry. The gold medal was accompanied by a bronze replica and \$5000.

Professor Bertozzi received the Nichols Medal "For New Chemical Methods for the Study and Control of Biological Processes." Her award acceptance address showcased her determination to succeed in the field of chemistry and the need for seeking and accepting challenges. Over 200 chemists from academia and industry enjoyed the day's events.

Among the distinguished attendees at the dinner were Dr. Thomas H. Lane, 2009 President of the American Chemical Society, Dr. Anne T. O'Brien, District 1 Director, as well as three generations of the Nichols Family, Mr. David Nichols and Mr. C. Walter Nichols III (great grandsons of William H. Nichols), Mr. Charles Nichols and Mr. Michael Nichols (great, great grandsons), Mrs. Sandra Nichols Nash (great, great granddaughter), and Mr. Gardner and Ms Whitney Nash (great, great, great grandchildren). Professor Howard Hang of The Rockefeller University introduced Professor Bertozzi at the Medal Award Dinner with a



Prof. Carolyn R. Bertozzi accepting the ACS New York Section's Nichols Medal Award from ACS President Dr. Thomas H. Lane.

slide show emphasizing her love for science.

The award dinner was preceded by an excellent distinguished symposium that featured as speakers: Professors David Y. Gin, Memorial Sloan-Kettering Cancer Center; Alice Ting, MIT; Tom W. Muir, The Rockefeller University; and the Nichols Medalist Carolyn R. Bertozzi. The title of the distinguished symposium was Innovations in Chemistry Toward Advancing Biology.

The Nichols Medal was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was awarded for the first time in 1903. Dr. Nichols, a charter member of the American Chemical Society and its president in 1918 and 1919, maintained a deep commitment to research and development and to the importance of supporting science education and students of chemistry. Since its inception, through an endowment fund, the New York Section administers the award. It has been perpetuated by the generosity of Dr. Nichols, his family and the Nichols Foundation, Inc. The William H. Nichols Medal is the first award in chemistry of the American Chemical Society.



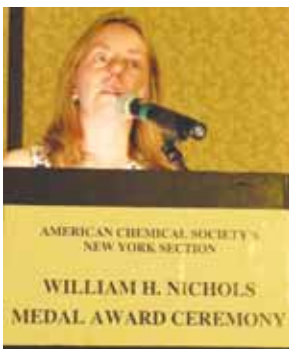
Dr. Carolyn Bertozzi gave a wonderful acceptance address emphasizing the importance of seeking challenges and accepting them. Her humorous presentation was enjoyed by all.

(More picture on next page.)

2009 WILLIAM H. NICHOLS MEDAL



Dr. Bertozzi happily displays the Nichols Medal that she received at the Nichols Medal Award Dinner.



Dr. Barbara Hillery, NY ACS 2009 Chair, excelled in her role of emcee of Nichols Medal Ceremony.



Dr. Thomas H. Lane congratulated Dr. Bertozzi and extended heartfelt greetings on behalf of National ACS.



Medalist Carolyn Bertozzi enjoyed meeting the Nichols Family. From the left: Mr. David Nichols (great grandson of Dr. William Nichols), Mr. Charles Nichols, (great, great grandson), Mrs. Helga Nichols (wife of C. Walter Nichols III), Dr. Bertozzi, Mr. Gardner Nash (great, great, great grandson), Mr. C. Walter Nichols III (great grandson), Mrs. Sandy Nichols Nash (great, great granddaughter), Ms Whitney Nash (great, great, great granddaughter), Mr. Michael Nichols. (great, great grandson).



Dr. Neil Jespersen welcomed the great, great, great grandchildren of Dr. William H. Nichols to the reception. It was an honor to have 3 generations and 10 members of the family join with the NY Section for the awarding of the 103rd Nichols Medal.



Gathering prior to the award dinner, Dr. Thomas Lane (ACS President), Mr. Frank Romano (2009 NY ACS Chair elect), Dr. Tom Muir and Dr. David Gin (Symposium Speakers), Medalist Carolyn Bertozzi, Dr. Anne O'Brien (District 1 Director), Mr. David Nichols and Mr. C. Walter Nichols III, Dr. Barbara Hillery (2009 NY ACS Chair) and Dr. Howard Hang (Introducer)

EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE, NY SECTION

To Human Resources Departments in
Industry and Academia

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area.

Members can request job information or employers can advertise for free. They can contact me, Chair of the Professional and Employment Committee at hessytaft@hotmail.com if there is a job opening by employers or if a job seeker is looking for availability. The purpose of this mechanism is to put relevant people in contact who may not wish to give all their info on the web.

For job seekers, I would need their ACS member number, their latest degree, 3-5 words about their specialty/area of interest and about 1-2 lines on experience. For job posting, I would need a short description of the position available and the background required. If you have job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to hessytaft@hotmail.com.

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North Jersey Meetings

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CAREERS IN TRANSITION GROUP

Job Hunting??

Are you aware that the North Jersey Section holds monthly meetings at Fairleigh Dickinson University in Madison to help ACS members? Topics covered at these cost-free workshops are:

- The latest techniques in resume preparation
- Ways for improving a resume
- Answers to frequently asked interview question and
- Conducting an effective job search

The next meeting for the Careers In Transition Group will be held **Thursday, June 4, 2009**, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact vjkuck@yahoo.com, if you plan on attending this meeting.



ChemTAG MEETING

Chemistry of Building Materials, Corrosion and Weathering

Presenter: Dr. George W. Scherer
Professor of Civil and
Environmental Engineering

The presentation will be followed by a walking tour of Princeton Campus for visual evidence.

Date: Friday, June 5, 2009

Time: 4:00 – 6:00 PM

Place: Princeton University
Princeton, NJ

Contact: Cheryl Litman, (732) 256-2237
clitman@mail.nbtschools.org



TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, June 8, 2009

Time: 4:30 PM

Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

Contact: Paul Sekuler
researchhs@hotmail.com

CHEMISTRY OLYMPIAD

A total of 205 high school students from the NoJ Section were nominated by 23 teachers to take the 1st screening test of the US National Chemistry Olympiad held at FDU-College at Florham on March 25, 2009. From these, 10 students, listed below, were qualified to go on to the 2nd level testing, to be given on April 25.

The above screening is a yearly endeavor by the national ACS whose goal is to locate the top 20 high school chemistry students nation-wide. The top 20 will be invited to attend a two-week study camp in Colorado Springs, covering almost all aspects of chemistry. From this group, the four best will be chosen to compete as a team in the International Chemistry Olympiad, to be held in Cambridge, England on **July 18-27, 2009**.

Student	Teacher & High School
Yixiao Wang	Martha Bailey Westfield HS
Timothy Barnum	Michael Amendola Watchung Hills Regional HS
Christopher Varnerin	Michael Amendola Watchung Hills Regional HS
Utsarga S. Sikder	Theresa M. Farinella South Brunswick HS
Ajay Roopakalu	Theresa M. Farinella South Brunswick HS
Siddarth Viswanathan	Paul Kimmel East Brunswick HS

David Kolchmeyer	Paul Kimmel East Brunswick HS
David Zhao	Paul Sekular JP Stevens HS
Elan Kugelmass	David Ostfeld Bergen County Academies
Ian Osborn	David Ostfeld Bergen County Academies



GREEN DAY AT FAIRLEIGH DICKINSON UNIVERSITY

Green Day was a huge success as the Fairleigh Dickinson University community came together to discuss, share and celebrate the sustainability efforts on campus. The days events included nearly 100 student presentations, a keynote address given by Steve Morgan from JCP&L, a campus wide brainstorming session about how to be even more sustainable, workshops including topics like electronic waste and green energy, performances by the Melodies from Heaven Gospel Choir and the FDU Chorus, and finishing off with an awards ceremony and concluding remarks from Pres. Michael Adams. A green Vendor fair was also part of the days events where campus groups and local businesses and non profit organizations interacted with the FDU community. A great time was had by all. Photo is the student Green Day Planning Committee in front of the FDU rock painted for the Green Day event.



Melissa Collins, Nareen Hassan, Priyal Patel, Andy Koneski, Erika Baldino, Meha Sheth and Blair Lorenz.

ORGANIC TOPICAL GROUP

'A Celebration of Organic Synthesis' to Mark the 65th Birthday of Prof. Amos B. Smith III

Keynote Speaker: Prof. Amos B. Smith, III
Univ. of Pennsylvania



Speakers: Prof. John L. Wood
Colorado State University

Prof. Jon D. Fainier
University of Utah

Prof. Matthew Gaunt
University of Cambridge

Prof. Gary A. Sulkowski
Vanderbilt University

Date: Thursday, August 13, 2009

Times: Registration 9:00 AM

Symposium 9:30 AM

Lunch 12:00 noon

Place: Rutgers University

Busch Campus

Science and Engineering

Resource Center

118 Frelinghuysen Road

Piscataway, NJ

Cost: Symposium and Lunch \$100.00

Due to limited seating, registration and payment are required by August 7, 2009.

For directions, information and on-line registration, please visit <http://www.njacs.org/organic.html>.

61st ANNUAL RESEARCH CONFERENCE

The Sixty-First Annual Research Conference of the Intercollegiate Council of the American Chemical Society Student Affiliate Chapters, North Jersey Section was held at Fairleigh Dickinson University on Friday April 24th. A total of nine presentations were given by students from the College of Saint Elizabeth, Drew University, Fairleigh Dickinson University, and the New Jersey Institute of Technology. The event was judged by Maureen Chan (formerly of Bell Labs), Kelly George (Roche), Bill Suits (ACS) and Sarah Young (Merck). A great time was had by all! The winners are:

Jan Asell Durana Award For Best Research Presentation

Ann Mularz and Dr. Mary-Ann Pearsal*

"Coordination of 1,6-Hexanediol in Triosmium Carbonyl Clusters"

Department of Chemistry, Drew University, Madison, NJ

Second Place Award

For Outstanding Research Presentation

Marc J. Lindner, Dr. Gloria T. Anderle* and Dr. Daniel J. Calcagnetti*

"Molecular Dynamic Simulations of μ -Opioid Receptors and an Irreversible Opioid Antagonist μ -Funaltrexamine"

Department of Chemistry & Pharmaceutical Science and the Department of Psychology, Fairleigh Dickinson University, Madison, NJ

Third Place Award

For Outstanding Research Presentation

Itsaso Auzmendi Murua, Rubik Asatryan, and Dr. Joseph W. Bozzelli*

"Gas Phase Mercury Conversion in H₂, O₂, Chloro and Bromo C₁-Hydrocarbon and NO_x Comustion Effluente from Use of an Elementary Kinetic Mechanism"

Department of Chemistry and Chemical Engineering, New Jersey Institute of Technology, Newark NJ



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- § Register for free for ACS National Meetings and just \$25 for Regional Meetings; network and attend the ACS Career Fairs with on-site interviews
- § Take advantage of special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and

the ACS Leadership Development System

- § Join the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers
- § Free Guidance from ACS Career Consultants – ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest
- § Members-only access to the ACS Salary Comparator

And that's just the beginning – you'll find a wealth of information about career development on the ACS Careers web site, as well as the ACS Careers Jobs Database. Contact ACS today to see how we can help – e-mail service@acs.org or call 800-333-9511 or 614-447-3776.



ACS LAUNCHES WEBCAM INTERVIEW

ACS has just launched a new service for job seeking ACS members. Through free access to InterviewStream you can now conduct a practice job interview online and get feedback on the interview.

All you need is a computer and webcam. At the site you can pick your question set and conduct a practice interview. You can then view your practice interviews and critique your interviewing skills.

Advice is also available from experts on how to approach certain questions, and how to avoid common interview mistakes.

To learn more about this service and to conduct an interview go to <http://acs.interviewstream.com/home/>.





Do you have an idea for a new technology, but not sure how to turn your vision into a commercial business? The New Jersey Meadowlands Commission Business Accelerator is a tremendous resource for entrepreneurial companies.

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Rudy Behrens, CEO, Solaris Cybernetics, LLC

For more information contact:
Michel Bitritto, PhD Director, NJMC Business Accelerator
160 Chubb Avenue, suite 204 Lyndhurst, NJ 07071
(201) 438-1245
Michel.bitritto@njmeadowlands.gov
www.njmcaccelerator.com

Others

TRISTATE CHINESE AMERICAN CHEMICAL SOCIETY (CACS TRISTATE CHAPTER)

Annual Symposium — Innovation and Entrepreneurships in Pharmaceutical and Chemical R&D

The symposium has had a track record of attracting R&D leaders and research oriented business leaders from pharmaceutical and chemical companies in the Tri-State area, their counterparts from China, and Chinese-American chemical professionals. Many senior R&D leaders from BMS, Schering-Plough, Rohm & Haas, sanofi-aventis, and Wyeth had given keynote presentations in this venue in the past several years. The symposiums in 2006-2007 attracted over 200 attendees each and in 2008 the attendance soared to ~ 300.

CACS is a nonprofit organization with the purposes of promoting fellowship among Chinese chemical professionals, interactions between US and Greater China in chemical and pharmaceutical industries,

and public appreciation of science. The theme of this year's symposium is "Innovation and Entrepreneurships in Pharmaceutical and Chemical R&D". You are welcome to check out our website at <http://tristatecacs.org/> for additional information about our organization or programs. If you are interested in contributing to the symposium, please contact Dr. Duxi Zhang at duxizhang@yahoo.com; if you would like to contribute to CACS, please contact Dr. Fangbiao Li at fangbiaoli@hotmail.com. The registration is free for attending the meeting. Please check out our website for online registration.

Date: Saturday, June 13, 2009

Time: 8:30AM to 4:30 PM

Place: Busch Campus Center
Rutgers University
Piscataway, NJ

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Call for Nominations

ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2009.

Each year since 1958 the New York Section presents an Outstanding Service Award to a most deserving member of the section. Many members of the New York Section provide their time, leadership talent, and educational skills to the New York Section. The tradition of excellence of the New York Section is attributable directly to the cumulative effect of these individuals. Please help the New York Section to recognize the efforts of our colleagues by nominating them for this award. Nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2009 will be presented at the New York Section's Section-wide Conference in January 2010.

Nominations with supporting data should be mailed to the OSA Committee Chair, Dr. Robert H. Beer, Department of Chemistry, Fordham University, 441 East Fordham Road, Bronx, NY 10458, or emailed to beer@fordham.edu.

For more information about the award along with a list of former award recipients, please visit the New York Section's website at http://www.newyorkacs.org/awards_nyacs.html.



EDWARD J. MERRILL AWARD FOR OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER FOR 2010

Now is the time to begin thinking about nominations for the Edward J. Merrill Award, North Jersey Section, for Outstanding High School Chemistry Teacher for the year 2010.

Go to the web site, njacs.org under education and obtain your preliminary nomination form and guidelines. The full packet takes time to do a good job!

We all know an outstanding high school chemistry teacher. Perhaps one from your town, your son's or daughter's teacher or just one that you have heard about or worked with at some point. The award carries \$500 for the teacher, \$500 in supplies for the teacher's classroom and a plaque to display at home or in the classroom.

Any questions or help needed contact George Gross, njmoxie1@verizon.net.

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ANNUAL INDICATOR BUYER'S GUIDE

Your Buyers Guide Listing is FREE! If you are not listed in this year's Guide, please contact Vince Gale at (781) 837-0424, email, vincegale@mboseervices.net to be listed in next year's Guide.

The purpose of the Guide is to provide a ready reference of companies providing products and services that are of interest to our American Chemical Society members. They will use this Guide to locate vendors who can service their needs when they are trying to solve a problem, need equipment, restock inventory or require consultant services. They will keep this Guide until the next one is published. It has been estimated that this scientific audience has an annual purchasing power of more than \$600,000,000.

How to use this Guide -- First look at the PRODUCTS & SERVICES DIRECTORY which starts on this page. Find the Category in which you are interested. Categories are shown in bold letters. Then, under the Category look for the specialized Product or Service that you want and note the companies that are shown there. Then go to the Company Directory (on page 21) and locate the companies that provide the Product or Services that interest you. Complete contact information is available for each company listed in the Buyers Guide.

BUYER'S GUIDE - Products & Services

ANALYTICAL EQUIPMENT

3-Densitometers

Cargille Laboratories

3A-Microwave extractor

Milestone, Inc.

3B-Microwave Digestor

Milestone, Inc.

3C-Microwave Pryolyzer

Milestone, Inc.

3D-Mercury Synthesis

Milestone, Inc.

3E-Mercury Analyzer

Milestone, Inc.

4-Molecular weight analyzers

Brookhaven Instruments Corp.
Polymer Standards Ser,-
USA Inc.

5-Moisture analyzers

Cosa Instrument Corporation

6A-Particle size

Brookhaven Instruments Corp.

8-Polarimeters

Pdr-chiral Inc.

9-Refractometers

Cargille Laboratories

12-Viscometers

ATS RheoSystems
Brookfield Engineering Lab
Inc.
C.W. Brabender Instruments
HT Laboratories, Inc.

12A-Water test kits

Taylor Technologies Inc.

12BA-Zeta potential

Brookhaven Instruments Corp.

ANALYTICAL SERVICES

12C-HPLC

Ast Scientific, LLC
Galbraith Laboratories
Libra Technical Center, LLC
XenoBiotic Laboratories, Inc.

12D-Mass Spectrometry

Alpha M.O.S. America
Atlantic Analytical Laboratory
Galbraith Laboratories
Libra Technical Center, LLC
Metabolic Solutions, Inc.
XenoBiotic Laboratories, Inc.

12DA-SEC/GPC size excl chromatography

Polymer Standards Ser,-
USA Inc

12E-Radio chromatography

XenoBiotic Laboratories, Inc.

12F-TLC

Galbraith Laboratories

12G-UV-Visible Spectroscopy

Galbraith Laboratories
Libra Technical Center, LLC

12H-NMR Spectroscopy

Ast Scientific, LLC
New Jersey Inst. of Technology
NuMega Resonance Labs, Inc.

BIOTECHNOLOGY

13-Biochemicals

Gelest Inc.
TCI America

14-Biomedical equipment

BioPro International Inc.
Sarchem Laboratories, Inc.
Scientific Asset Management

15-Biomedical polymers

Gelest Inc.

16-Cell disruption

Impandex, Inc.

17-Microbiology

Bioremediation Consulting Inc.
Libra Technical Center, LLC

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18-Bio-analyses by HPLC

XenoBiotic Laboratories, Inc.

19-Bioanalytical service LC/MS

Rocky Mountain Instruments
Lab
XenoBiotic Laboratories, Inc.

20-Certificates of analysis

Galbraith Laboratories
KulTech Incorporated
Libra Technical Center, LLC
XenoBiotic Laboratories, Inc.

21-Data processing

Signatec, Inc.

21A-Elemental Microanalysis

Chemtest Laboratories
Complete Analysis
Laboratories

Galbraith Laboratories
Robertson Microlit Labs.

21B-Polymer analysis

Polymer Standards Ser,-
USA Inc.

22-Precious metal assay

Galbraith Laboratories

23-Testing laboratory

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Atlantic Analytical Laboratory
Bioremediation Consulting Inc.
Galbraith Laboratories
Libra Technical Center, LLC
ProScience Analytical Svs
Robertson Microlit Labs.

BUYER'S GUIDE - Products & Services

24-Trace element analysis

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Huffman Laboratories, Inc.
Libra Technical Center, LLC
Robertson Microlit Labs.
VHG Labs

25-Thermal analysis

ATS RheoSystems
Libra Technical Center, LLC
Setaram Inc.

25B-Calibration polymers

Polymer Standards Ser.,
USA Inc

CHEMICALS

26-Catalysts

Gelest Inc.

27A-Chiral & custom chemicals

Gelest Inc.
Matrix Scientific
TCI America

28-Custom synthesis

Bedoukian Research
Gelest Inc.
Matrix Scientific
Polymer Standards Ser.,
USA Inc
Richman Chemical, Inc.
Sarchem Laboratories, Inc.
TCI America

32B-Hydrocarbons

Gelest Inc.
TCI America

33-Inorganic chemicals

Gelest Inc.

34-Intermediates

Gelest Inc.
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Oakwood Products Inc.
TCI America

35-Isotopes

ICON (Isotope) Services Inc.

35B-Organic Compounds

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Oakwood Products Inc.
TCI America
Tyger Scientific Inc.

35A-Pharmaceutical intermediates

Ash Ingredients, Inc.
Gelest Inc.
Matrix Scientific
Sarchem Laboratories, Inc.
TCI America

37-Reagents

EMD Chemicals Inc.
Oakwood Products Inc.
Spectrum Chemicals & Lab
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38-Research Chemicals

ChemBridge Corp.
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Libra Technical Center, LLC
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Oakwood Products Inc.
Polysciences, Inc.
TCI America

39-Solutions, standard

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41-Accessories & supplies

Sorbent Technologies, Inc.

42-Columns, prepacked

Sorbent Technologies, Inc.

42A-Chromatography

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ESA Biosciences, Inc.
GOW-MAC Instrument Co.
Sorbent Technologies, Inc.

43-Gas

Alpha Omega Technologies
Inc.
GOW-MAC Instrument Co.
Libra Technical Center, LLC
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44-HPLC columns

Nacalai USA Inc.
Sepax Technologies
Sorbent Technologies, Inc.
TCI America
YMC America, Inc.

44A-SEC/GPC columns

Polymer Standards Ser.,
USA Inc

45-Ion

Sorbent Technologies, Inc.

46-Liquid

Richard Scientific
Sorbent Technologies, Inc.

46A-Size exclusion

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47-Thin layer

Sorbent Technologies, Inc.

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56-Software

Abacalab
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Tripos, Inc.

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57A-Executive Search

Moe Reitman, Inc.
On Assignment Lab Support

58-Market research

Contract Market Research

59-Patents

Banner & Witcoff, Ltd.

CONSULTING SERVICES

64-Chemical Process

KulTech Incorporated

65-Contract research

KulTech Incorporated
Libra Technical Center, LLC
Poly(Chem-Tech)
TRI/Princeton
XenoBiotic Laboratories, Inc.

65A-Contract testing laboratory

Airborne Labs Intl. Inc.
Atlantic Analytical Laboratory
ATS RheoSystems
Galbraith Laboratories

66-Engineering

GEA Process Engineering Co.
ICF International

68-Forensic analyses

Cargille Laboratories
Libra Technical Center, LLC

69-Infrared analyses

Galbraith Laboratories
Huffman Laboratories, Inc.
Libra Technical Center, LLC
Micron Inc.

72-NMR analysis

Spectral Data Services
XenoBiotic Laboratories, Inc.

74-Organic chemistry

Galbraith Laboratories

74B-Pharmaceutical analysis

Atlantic Analytical Laboratory
Galbraith Laboratories
Libra Technical Center, LLC
XenoBiotic Laboratories, Inc.

75-Polymers

Poly(Chem-Tech)
Polymer Standards Ser.,
USA Inc

76-Product formulation

Poly(Chem-Tech)

77-R & D

Libra Technical Center, LLC
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79-Safety

The Laboratory Safety Inst.

80-Spectroscopy

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80A-Technology transfer

Business Development Intl.

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81-UV analysis

Galbraith Laboratories

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84A-Discharge ionization

GOW-MAC Instrument Co.

85-Flame ionization

GOW-MAC Instrument Co.

86-Gas leak

GOW-MAC Instrument Co.

87A-Thermal conductivity

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ELECTRON MICRO- PROBE

88-Electron Microprobe

Micron Inc.

ELECTRON MICROSCOPY

89-Electron Microscopy

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90-Environmental analysis

KulTech Incorporated

ESCA SERVICES

91-ESCA services

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97-Blenders, mixers, stirrers

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Patterson-Kelley

98-Burets & accessories

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105A-Deuterium Lamps

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106-Distilling equipment

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Milestone, Inc.

107-Dryers

Bel-Art Products
GEA Process Engineering Co.
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107A-Ductless fume hoods

Erlab, Inc.

109-Evaporators

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110-Filters

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119A-Labware

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129-Pumps

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132-Solvent purification systems

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134-Tungsten halogen lamps

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135A-UV-visible lamps

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137-Vacuum equipment

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MASS VAC, Inc.
VACUUBRAND, Inc.

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Cargille Laboratories

144B-Microscopes

Libra Technical Center, LLC
Sor bent Technologies

MICROSCOPES- SCANNING PROBE

144C-Atomic Force

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145-Organic microanalysis

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Matrix Scientific
Milestone, Inc.
Organix Inc.
Zinsser North America

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Gelest Inc.

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148-Instruments

KulTech Incorporated

QUALITY CONTROL

151-Quality control

Cargille Laboratories
KulTech Incorporated
Real-Time Analyzers, Inc.

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165A-Circular dichroism spectrometers

JASCO

167-Fluorescence

Lumex Intl.

171-IR & UV cells

International Crystal Labs
Kett US

172-Mass

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174-Raman

Real-Time Analyzers, Inc.

176-UV visible

Techne Inc.

178-X-ray fluorescence

KulTech Incorporated

EDUCATION &

PUBLICATIONS

179-Books, journals,

monographs

CryoGas International

179B-Training & education

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Chemical Heritage Foundation

Societe de Chimie Industrielle

Temple University

179C-SEC/GPC training

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65A

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dina@astscientific.com
12C, 12H

Atlantic Analytical Laboratory

Ralph Ciotti
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rciotti@atlanticanalytical.com
12D, 23, 65A, 74B, 80B

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Steven Colo
President
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(609)298-2795
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12, 25, 65A

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