October 22-28, 2006
2006 Eastern Analytical Symposium and Exhibition

Celebrating the Diversity of Science

November 13–16, 2006

Why Eastern Analytical Symposium This November?

- We are the second largest conference and exposition for laboratory science in the United States.
- We offer high quality cutting-edge technical sessions.
- We have state-of-the-art short courses, workshops and seminars.
- We showcase the latest innovations in scientific instrumentation and technology at our exposition.
- We have diversity and depth of interest.
- We are conveniently located just 30 minutes away from a major international airport.

Please visit us at our website for information on our programs and registration.

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**Deadline for items to be included in the December 2006 issue of The Indicator is October 15, 2006.**

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**THIS MONTH IN CHEMICAL HISTORY: A CORRECTION**

Harold Goldstein, California State University, Los Angeles
hgoldw@calstatela.edu

Prepared for SCALACS, the Journal of the Southern California, Orange County, and San Gorgonio Sections of the American Chemical Society

In a previous column I discussed the history of the term “photon” as it is currently used, attributing it to G.N. Lewis in a 1926 publication. A well-informed reader, Dr. Rodney Brooks of Wanaka, New Zealand, a retired physicist who is writing a book on Quantum Field Theory, has drawn to my attention the need to correct and amplify that column. He points out that Max Planck, in his Nobel Prize acceptance speech delivered in 1920 (for the prize in physics for 1918), used the word “photon” in its modern sense five times. I believe that speech was delivered in German. It was translated into English and also published in English but I have not yet traced the dates of the earliest publications.

If I attach the proviso to my previous column that I was discussing the word ‘photon’ as it appeared in English then the column stands as essentially correct. A re-reading of the full Oxford English Dictionary (OED) confirms the history of the word in English as I gave it.

That leaves us with two further puzzles. What is the origin of the German term “photon” that Planck used in 1920? Was it invented by Planck (the Nobel speech makes no mention of the word as a new term) or was it in general use in Germany at that time? Unfortunately the library sources I have at my disposal do not include a comprehensive dictionary of German on historical principles, a German analog of the OED. And was G.N. Lewis aware of Planck’s use of the term, somehow omitting reference to its prior use?

If any perceptive readers can help me with answers on either of these points I would appreciate hearing from them.

---

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New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS GROUP

Ethanol Supply & Demand Forecast
Speaker: Greg Sweeney
Director of Carbon Dioxide Sourcing
Phaxain, Inc.
Darien, CT

Date: Thursday, October 5, 2006
Place: The Chemists’ Club
40 West 45th Street
New York, NY

Times: 1:30 PM Luncheon 12 noon Presentation 1:15 PM
Fees: $40 discount price for Members who reserve by Tuesday, October 3 (12 noon). $55 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price.

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WESTCHESTER CHEMICAL SOCIETY

Microsphere Biosensors
Speaker: Iwao Teraka
Associate Professor
Polytechnic University
Brooklyn, NY

This presentation is about one of the world’s most sensitive biosensors, which Dr. Teraka has been developing over the past several years. The biosensor uses a transparent glass sphere of a diameter of less than 1 mm, which can house highly monochromatic light that travels along the interior side of the glass surface by total internal reflection. The surface of this sphere is modified with a ligand. When a biomolecule with a receptor attaches to the ligand, the orbit of the monochromatic light becomes slightly longer, which can then be detected as a shift of the wavelength. This sensing scheme detected, with extremely high sensitivity, non-specific adsorption of proteins, hybridization of DNA, and adsorption of antigens to immobilized antibodies. It is predicted that our biosensors will be able to detect a single molecule of insulin without the necessity of fluorescence labeling.

Dr. Teraka earned his Ph.D. at the University of Tokyo. After postdoctoral appointments at the IBM Almaden Research Center and the University of Massachusetts at Amherst, Teraka has been teaching chemistry at Polytechnic University. His research has been in the fields of polymer solutions and polymer chromatography. He is now concentrating on photonic biosensors. He is the author of a textbook, “Polymer Solutions: Introduction to Physical Properties,” Wiley 2002.

Date: Wednesday, October 11, 2006
Time: Registration and refreshments 5:30 PM
Speaker’s talk & Q & A 6:15 PM
Dinner at a nearby restaurant 7:30 PM

Place: Polytechnic University
Westchester Graduate Center
40 Saw Mill River Road
Hawthorne, NY

For more information, contact Professor Mary Cowman: mcwman@duke.poly.edu

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23. I certify that the statements made by me above are correct and complete.
PS Form 3526, September 2006.
HIGH SCHOOL TEACHERS

TOPOLOGICAL GROUP

Using Video (Streaming and Nonstreaming) to Enhance Your Science Lesson

Speakers: Christopher Ward
Hommocks School
Mamaroneck, NY

and

Thomas Vesey
Gorton HS
Yorktown, NY

Learn how to use video segments in inquiry based lessons (using NTI Methodology): how to get on line using the 13/PBS/NYS purchased streaming site and download free video clips; other resources on the site and more. (We will also touch on how to use movie video clips to enhance a science lesson.)


New York, NY
(You eat, you pay cash only, no credit cards.)

Time: Meeting 7:15 PM
Place: New York University
Silver Center Room 207
32 Waverly Place (south-east corner Washington Sq. East)
New York, NY

Security at NYU requires that you show a picture ID to enter the building. In case of unexpected severe weather, call John Roeder, 212-497-6600, between 9 AM and 2 PM to verify that meeting is still on; 914-361-8882 for other info.

Note: Street parking is free after 6:00 PM. For those who prefer indoor attended parking, it is available at the Metro/Romar Garages. The entrance is on the west side of Broadway just south of 8th Street, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.

NY SECTION ELECTION RESULTS

The results of the ACS New York Section’s 2006 elections, held in May, were announced at the Section’s Board of Directors meeting on June 9th. The New York Section extends a sincere thank you to all of the candidates in this election and expresses its deep appreciation for their time and efforts. The Section looks forward to another successful year in 2007.

Chair-elect for 2007
Marc A. Walters
New York University

Secretary for 2007 and 2008
Iwao Teraksa
Polytechnic University

Director-at-Large for 2007
Mary K. Cowman
Polytechnic University

Brian A. Gibney
Columbia University

Barbara R. Hitley
College at Old Westbury, SUNY

Councillors for 2007–2009
Hiroko I. Karan
Medgar Evers College, CUNY

Patricia A. Redden
Saint Peter’s College
Yorke E. Rhodes
New York University, Retired

Alternate Councillors for 2007–2009
Richard D. Casettas
College of New Rochelle
Richard M. Goodman
President, Richard M. Goodman Consulting LLC
Marc A. Walters
New York University

Congratulations!

2007 WILLIAM H. NICHOLS MEDALIST

The Nichols Medal Jury is pleased to announce that, following careful deliberations, the Jury unanimously selected Professor Nicholas J. Turro of Columbia University as the 2007 Nichols Medalist.

The Nichols Distinguished Symposium and Medal Award Dinner will be held on Friday, March 16, 2007 at the Crowne Plaza Hotel, White Plains, NY. The program for the Symposium is available on the New York Section’s website (http://www.NewYorkACS.org) and will be published in the January, February and March issues of The Indicator. A brochure describing the events and registration will be sent to all New York Section members in January. Please reserve this date to support the Section’s most important event.

Congratulations and Best Wishes to Professor Turro.

North Jersey Meetings

http://www.njacs.org

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting and to become more involved in section activities.

Date: Monday, October 23, 2006
Time: 5:30 PM
Place: Fairleigh Dickinson University
College at Florham
Hartman Lounge, the Mansion
Madison, NJ

Cost: $5.00 - pizza dinner
Directions: can be found at view.fdu.edu/default.aspx?id=238

Reservations: call 732-463-7271 or email njacsoffice@aol.com prior to Wednesday, October 18, 2006

Dinner at the Section Meeting is payable at the door. However, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.

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THE INDICATOR-OCTOBER 2006

THE INDICATOR-OCTOBER 2006
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
• Conducting an effective job search.
The next meeting for the Careers in Transition Group will be held Thursday, October 5, 2006, 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.

CAREER CORNER ESTABLISHED
In future issues of The Indicatior, an article addressing career concerns will be printed under the title of Career Corner. We would like to hear from you. If you have specific questions concerning resume preparation, finding a job, handling interview questions or good sources for career advice or want to tell others about your successful efforts, please contact Billuits@earthlink.com.

National ACS has established a website, http://pubs.acs.org/dchem/jobs/, to address career matters for both employers and members. At the site, employers can place job ads, search the ChemJobs database to find suitable candidates and sign up for on-site interviewing at ACS clearingshairs. Members can post their resumes on ChemJobs, search job postings in C&EN by degree, sub-field and work sector, and sign up to receive alerts when jobs of interest are posted. Members can also sign up for a Career Consultant who can help with resume optimization and give job search tips. At this site, members can also hire a Coach, get an assessment of their behavioral style and have questions answered on career related matters. There are also publications to cover career issues as well along with advice for non-residents and interview tips. There also is a “Salary Comparaor”, which is updated annually from the ACS annual survey, that will allow an individual to learn the salary earned by individuals in their geographic area with a similar training and experience.

Locally, the North Jersey Section has a monthly meeting at Fairleigh Dickinson University in Madison for those interested in learning more about resume writing, job search strategies and interviewing skills and getting advice on ways of improving their resume and job search. There is no charge for attending these meetings. Members interested in attending those meetings should go to www.njacs.org and click on Careers in Transition. At the site, there are Job Postings as well. Employers who sponsor NJACS events can post positions for free. At the Job Posting section there is a listing of all of the companies in the area. This list is accessible by clicking on the link for Pharma, Cosmetic & Health Companies. This listing of companies has been provided by Rutgers University.

At most topical group meetings of the North Jersey Section, there is a Career Board containing information on jobs and assistance which can be obtained on career matters. Employers are encouraged to bring job postings for the board and make announcements at the meetings. These topical group meetings are great opportunities for job seekers to network and conduct informal interviews.

A team of Career Counselors from the North Jersey Section is available to address student groups about career planning, resume preparation, interviewing, and job openings in various industries. Student advisors should contact billuits@earthlink.net to get further information on these workshops.

We look forward to hearing from you.
Valerie J. Kuck
vjkuck@yahoo.com

BILL SUITS
billsuits@earthlink.net

TEACHER AFFILIATES
Executive Committee Meeting
Date: Monday, October 16, 2006
Time: 4:30 PM
Place: Chatham High School 255 Lafayette Avenue
Chatham, NJ
Contact: Diane Krone at 201-385-4810 or krone@d?option.net

NJACS MASS SPECTROMETRY DISCUSSION GROUP — JOINT DINNER MEETING WITH CPSA 2006 CONFERENCE
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“Ion Formation from Complex Solutions: Understanding Matrix Effects and Ionization Suppression”
Richard C. King
Merrck Research Laboratories

“Markers of Cancer Using a Liquid Proteomics Approach”
David M. Lubahn
University of Michigan

Date: Wednesday, October 18, 2006
Place: Hyatt Regency Princeton
102 Carnegie Center
Princeton, NJ
Times: Instrument Vendor Exhibition
3:30 – 6:00 PM
Social Hour 5:00 – 6:00 PM
Dinner-North Jersey ACS Mass Spectrometry Discussion Group
6:00 – 7:30 PM
NJACS MSDG Announcements, CPSA - Distinquished Analytical Scientist Award Presentation
7:30 – 7:45 PM
Keynote Lectures 7:45 – 9:00 PM

Cost of NJACS MSDG Meeting: None
Information: http://www.milestonedevelopment.com/
CPSA/2006/shortcourses.html

Register for NJACS MSDG Dinner
Meeting: http://www.njacs.org/msgs.html
NATIONAL CHEMISTRY WEEK

Do you enjoy generating lots of smiles and hearing an excited youngster ask if they can try that experiment? Why not join the North Jersey Section of the American Chemical Society (ACS) this year in its outreach to the general public? On Saturday, Oct. 28 from 11:00-3:00, the Section will be celebrating National Chemistry Week at Fairleigh Dickinson University in Madison with the next generation of future scientists. Volunteers are needed to put on hands-on activities geared for 8 to 12 year olds. Why don’t you come join us this year!

The theme for this year is “Your Home: It’s All Built on Chemistry”. You are not limited to this topic but it would be appreciated, if a number of the activities dealt with this topic. As usual our first priority is safety. Preferably, we would like presenters to use household materials to demonstrate a scientific principle. For safety reasons there should be no activities or demonstrations involving the burning of materials. To help students to redo your activities at home and at school, handout instructions would be greatly appreciated.

If you are out of ideas for safe activities for a table, you can look at the NCW page at the ACS website. To minimize duplication of the presentations, we will need to know by October 7 the activity you would like to conduct at your table. Individuals contacting us first with their idea(s) will be given priority, so please let us hear from you as soon as possible. By October 15, we need to have the names and addresses of the individuals who will be joining you at your table.

As usual we are looking for financial support to cover the many expenses associated with our activities and would be most grateful, if you would contact the appropriate individuals at your company.

Please fill out the following forms and return them to me:

Form 1: Count me in.
My name is: ________________________________
I can be reached at: (work phone number) ________________________________
My complete address is: ________________________________
My email address is: ________________________________
I am an employee at: ________________________________
The activities at my table will be: ________________________________
In addition to a table, I also need: ________________________________
I will be bringing handouts on activities that the students can do at home. ☐ Yes ☐ No
I will need more than one table. ☐ Yes ☐ No How many additional tables will you need? ________________________________

Form 2: My company would like to support these efforts.
The following company/individuals are willing to help defray the costs of these events:
(Checks should be made out to the North Jersey Section and sent to me.)

An acknowledgement letter for this contribution should be sent to (name and full address):

Form 3: I will be joined at my table by the following volunteers.
Complete Name(s): ________________________________
Institution(s): ________________________________
Address (mailing): ________________________________
E-mail: ________________________________

Activity: ________________________________
Time Volunteering: ________________________________

Be sure to tell your co-workers and friends about the Section’s NCW activities. We look forward to seeing all of you on October 28 at the Student Center of Fairleigh Dickinson University in Madison.

Valerie J. Luck
45 Wardfield St.
Upper Montclair, NJ 07043
vjluck@yahoo.com

MONEY IS DUE BY OCTOBER 2, 2006
NORTH JERSEY ACS MEMBERS AT THE BIENNIAL CONFERENCE ON CHEMICAL EDUCATION

The Biennial Conference on Chemical Education (BCCE) was held last week at Purdue University in West Lafayette, Indiana. Over 1300 chemical educators who teach at the college and secondary school level attended it. There were over 840 papers, which is a record for that event! This meeting is organized by the Division of Chemical Education for chemical educators to exchange the latest information about the teaching and learning of chemistry at every level K-25. The meeting also consists of plenary lectures given by experts for the whole conference. Experts in chemical demonstrations exchange the latest in demonstration and put on a show for the entire conference. Every evening there is a social event after the evening plenary. The meeting is always held on a college campus and most attendees live and eat in the dorms. In fact even if a person opts to live in a near by hotel you can eat in the dorm because that is where you network with other members of the profession and find out informal information.

Every year members of the North Jersey Section of the ACS attend this conference. This year three members presented papers, Anita Brandolini, Jeannette Brown and Valerie Kuck. Diane and Tom Krone, and Betty Anne Howson also attended the meeting.

Jeannette Brown and Valerie Kuck (a Purdue alumna) gave presentations in a Symposium entitled “Women in Chemistry Education. Miss Brown’s presentation was “The History of African American Women Chemists.” Ms. Kuck’s presentation was “Analysis of the Doctoral Training of faculty members at Research Universities”. Both women have done extensive research on their topics and will be publishing books in the future.

Dr. Brandolini’s paper was entitled “The Keys to Chemistry: Interactive Web-Based Tutorials”. Her paper was about a simple way for students to learn the background information that they need in order to understand chemistry courses. It is intended for college students whose secondary preparation was not up to par but it is also being used by current secondary students as a tutorial.

Diane Krone and Bettyanne Howson are high school teachers who attend these conferences for professional development to hone their skills. They spent a lot of time attending the demonstration lectures and PDGIL workshops. PDGIL is Process Oriented Guide Inquiry Learning, a student-centered discovery-based teaching strategy designed to simultaneously develop content knowledge and key process skills such as critical think and teamwork. This method prepares students for working in teams in college and industry.

Betty Anne Howson, Jeannette Brown, Tom and Diane Krone.

The Aldehydes and Ketones whoop it up.

Just so you know this meeting is not all work and no play. Sunday night there was an ice cream social sponsored by the Journal of Chemical Education. Monday night there was wine and cheese in the exhibit area and Wednesday night there was music and dancing. The music was played by a pick up band of chemists called “The Aldehydes and Ketones”. This group was started two years ago at the Biennial at Iowa State University and was such a hit they came back for an encore presentation at this convention. They played music from the 60’s and 70’s. They had people such as Dr. Glenn Crosby, retired chemical educator, dancing along with the younger chemists.

Anita Brandolini
National Chemistry Week 2006
Poster Contest
"Your Home—
It's All Built on Chemistry"

As part of the National Chemistry Week 2006 celebration and in recognition of its theme, "Your Home—It's All Built on Chemistry", the American Chemical Society (ACS) is sponsoring a poster contest for students in Kindergarten through Grade 12.

Students are invited to create a poster that will serve as a public service announcement emphasizing the role of science/chemistry in the home and/or home safety improvements over the years (e.g., building materials, materials of which homes are made, home safety through chemistry, homes from different periods in history and different cultures, houses that use green chemistry in their design and function).

Participants should create a poster that features chemistry/science in homes message for the general public.

Prizes...Prizes...Prizes...Prizes...

First and second place in each of the following grade categories:
- K–2nd
- 3rd–4th
- 5th–6th
- 7th–12th

1st Place: $200 Gift Certificate to amazon.com
2nd Place: $100 Gift Certificate to amazon.com

There are also prizes for teachers of winning students, which will include a periodic table of the elements poster!

EDUCATORS:
Find important information about this contest—connections to chemistry and alignment to the National Science Education Standards at chemistry.org/nfw.

North Jersey ACS Local Section Prizes: In each age category First Place $50.00 Second Place $25.00 Third Place $10.00

Prizes also for teachers of winning students which includes a periodic table book written by Anna Branblim, North Jersey ACS member.

National Chemistry Week Poster Contest

Contest Rules:
- All entries must be original works without aid from others.
- Posters must be no larger than 14 x 22 inches in size.
- Entries must be drawn using crayons, paint, colored pencils or markers.
- Only one entry per student will be accepted.
- All entries must have the following information included on the back of the poster:
  - name of local section, ACS coordinator’s name, student’s name, grade, name of school, address, teacher’s name, school telephone number and teacher’s email address (optional but appreciated).
- Entries lacking complete and legible information will be disqualified.
- ACS is not responsible for lost, damaged, or delayed postal shipments.
- All posters become the property of the American Chemical Society.
- All photographs of prizes contain current to use winners’ names and address for editorial, advertising and publicity purposes.

Judging:
Participant entries will be evaluated on how well the message in the poster promotes the chemistry found in the home/home safety.

Four criteria will be used to determine the top entry for each age group:
1. Originality (use of color, poster design and layout)
2. Poster Message (related to chemistry’s role in the science of home safety)
3. Design (quality, degree of creativity and design)
4. Neatness (free of spelling and grammatical errors and/or stray marks)

The North Jersey ACS Section will identify and submit one winner in each of the four (4) grade categories to the ACS Office of Community Activities in Washington, DC. All posters will be displayed at the 23rd ACS National Meeting in Chicago, IL, March 25 – 29, 2007. First and second place winners will be selected for each grade category during this meeting. Winners will be notified by April 15, 2007.

DEADLINE FOR SUBMISSION IS FRIDAY DECEMBER 8 2006

Mail to: North Jersey ACS Office
4 Cameron Rd.
Parsippany, NJ 07054

Questions: Jeanette Brown, 908-246-1455 or jbrown@njacsteam.net

National Chemistry Week is a program of the American Chemical Society
Membership Division Office of Community Activities
1155 Sixteenth Street, NW, Washington, DC 20036
800-222-5555; ext. 6091, nfw@acs.org

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Dr. Roy Vagelos (Retired Chairman and CEO, Merck & Co., Inc.)
“The Changing Pharmaceutical Industry”

Dr. Carl Decicco (Bristol-Myers Squibb)
“Innovation in Drug Discovery”

Dr. Paul Feldman (GlaxoSmithKline)
“New Treatments for Type 2 Diabetes: GlaxoSmithKline’s DPP4 Inhibitor and PPAR Pan Agonist”

Dr. Malcolm MacCoss (Merck & Co.)
“EMEND(c) (Aprepitant) a potent, orally active Substance P Antagonist for the treatment of Chemotherapy Induced Nausea and Vomiting (CINV), from the medicinal chemistry bench to the clinic”

Dr. Bruce Roth (Pfizer)
“The Discovery and Development of Lipitor”

Registration will begin at 12:00, the symposium at 1:00, reception at 5:20, dinner at 6:00. Please note that Dr. Roy Vagelos’ talk will be at 7:00 pm.
Location: Somerset Marriott, 115 Davidson Ave., Somerset, NJ 08873

For directions, information and further details please visit our website:
www.njacs.org/organic.html

Michael M. Miller, (Chair), Bristol-Myers Squibb
Amjad Ali, Merck
Ann Gelormini, (Secretary), Sanofi-Aventis
Binh Vu, Hoffmann-La Roche
Jianshe Kong, (Treasurer), Schering-Plough
Dong Xiao, Schering-Plough
Lawrence Williams, Rutgers University

Due to limited seating, registration and payment are required by November 1, 2006.
Registration fee: Symposium, Reception, and Dinner $95.00
Students or Post-docs: Symposium, Reception, and Dinner $75.00
Please check one: Symposium and Dinner (595) ☐ Student Discount (375) ☐
Dinner selection: Filet of Salmon... ☐ Pasta... ☐ Roast Prime Rib... ☐
Check if you are a student or post-doc... ☐
Name _____________________________ Affiliation _____________________________
Address __________________________________________ E-mail _____________________________

To register this is for the November 17, 2006 event only:

Send above registration information with a check made payable to “North Jersey Section ACS” to:
Dr. Jianshe Kong, Schering-Plough Research Institute, 2015 Galloping Hill Rd., Mail Drop K-15-2-2400, Kenilworth, NJ 07033 • Email: jianshe.kong@spcorp.com

NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE

Seminar Series - Fall 2006
Wednesday, October 11, 2006
11:30 AM – 1:00 PM
Tianman Hall Room 373
“Viruses, Minerals and Arsenic”
Dr. Lily Young
Rutgers University, New Brunswick, NJ

Tuesday, October 17, 2006
11:30 AM – 1:00 PM

Puzzle — by Steve Waller

CHEMistiku Puzzle - Solve just like a standard Sudoku puzzle, except use the first nine elements from the periodic table. Fill in the blank squares with the elemental symbols such that each row, each column, and each 3x3 block contains all of the elements once. The elemental symbols are given across the top as a guide. Solution on page 22.
Professional/Product Directory

Puzzle Solution

Sc Ti V Cr Mn Fe Co Ni Cu
Fe Ni V Co Cu Ti Mn Cr Sc
Ti Cu Mn Cr Sc Fe V Co Ni
Co Cr Sc V Ni Mn Fe Ti Cu
Sc Ti Cr Ni Fe V Co Cu Mn
V Mn Co Cu Ti Sc Ni Fe Cr
Cu Fe Ni Mn Cr Co Sc V Ti
Mn Sc Fe Ti Co Cr Cu Ni V
Cr V Cu Fe Mn Ni Ti Sc Co
Ni Co Ti Sc V Cu Cr Mn Fe

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