Newsletter



Volume 26 No. 7

History of Chemistry and the Joseph Priestley Bicentennial

Howard and Sally Peters

2004 marks the 200th anniversary of the death of Joseph Priestly, one of the discovers of oxygen.

The Priestley Medal is the highest award for service made by the American Chemical Society and is awarded by the ACS Board of Directors. In the past it has been awarded to pioneering chemists, ACS presidents, Nobel Prize winners and even a non-chemist lawyer - Francis Garvan in 1929 (and for whom the ACS Garvan-Olin Award is named).

Priestley in addition to oxygen is credited with the discovery of 7 other gasses - including carbon dioxide. He created carbonated water and reported it tasted refreshing - but alas never patented it. He also discovered that India rubber removed graphite pencil marks - the first rubber eraser - and didn't patent that either.

Priestley's life was filled with controversy - he was always talking politics and religion. His lab and home were burned by a mob in England about 1792, and he and his wife were on a ship to Philadelphia when Lavoiser was beheaded in Paris. He learned of this tragedy much later. In the 10 years he lived in Northumberland PA, he criticized the US Government in violation of the recently passed Sedition Acts. He never became a US citizen and would probably have been deported had it not been for his long-time friendship with Thomas Jefferson.

The ACS Division of the History of Chemistry is sponsoring a Priestly Symposium at the upcoming ACS Meeting in Philadelphia. The authors will present the following two papers before the Division of the History of Chemistry on August 25. For more information (and 21,000 hits) on Priestley, search GOOGLE for "Joseph Priestley".

Joseph Priestley - His Life and Times

Joseph Priestley, (1743-1804)

scientist, politician and clergyman, lived in turbulent times. His early life has been documented. As a scientist, his observations and discovery of oxygen stirred up controversy. His religious views as a Unitarian minister were not popular. His outspoken support of the colonies in the Revolutionary War from 1776 to 1783 and later of people in the French

continued on next page



Jobs! Jobs! Jobs!

Have you seen the web site lately? Click on the jobs site. This is the result of the Chemployment Committee's hard work. Several hundred letters have been mailed to employers in northern California (and some in the central and southern parts of the state.)

Now we would like your help. How? Talk to the Human Resources people in your company about our service. Tell them we reach over 3500 chemists with the Silicon Valley Chemist and we probably can reach even more with the web site.

Yes, we are now placing job listings on the web site for two months each. Considering the links we have, we could be reaching chemists everywhere.

We do need your help. A few words from you may actually motivate the Human Resources people to look into our service. Try it.

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History of Chemistry, continued from front page

Revolution caused popular opinion to turn against him to a point that his home and lab were destroyed by a mob in 1793. He and his wife fled to the U.S. and she died shortly thereafter. His death in 1804 caused not great stir beyond Pennsylvania. He and members of his family are buried in Riverview Cemetery in Northumberland PA. It was recently learned that Nicholas and Barbara Paul, the first author's 5X - great grandparents are also buried in the same Riverview Cemetery. A portion of this talk will include excerpts of a fictionalized account describing the recently discovered personal diaries of Nicholas Paul, earlier a Revolutionary War soldier in Northampton (later Lehigh) Co. PA, while he was a contemporary of Priestley in Northumberland, PA.

Patriots and Patentees

The Revolutionary War (RW) patriots (1776-1783) were comprised mainly of white, male residents as is found in the DAR Index *www.dar.org* or in the records of the SAR *www.sar.org*. The early U.S. patentees (1790 - 1890) were also predominately educated, white, male residents as is found in the U.S. Patent Digests *www.uspto.gov*. This paper reports on the initial findings of matching names (and their stories) from the DAR Patriot Index with the early U.S. patentees. (Also see *www.invent.org*). The first U.S. patentee Samuel Hopkins (a chemical process for the making of potash) of Philadelphia was a Quaker and apparently is not reported in the DAR or SAR lists. Robert Fulton (steamboat) was a teenager and is reported to be involved with the RW. Jedediah Morse, the grandfather of Samuel F. B. Morse (inventor of the telegraph), is listed in the DAR Index. Other patentees investigated and discussed will include Charles Goodyear (rubber vulcanization), Eli Whitney (cotton gin), Samuel Colt (revolver), Abraham Lincoln (the only U.S. President and patentee-whose grandfather also Abraham Lincoln was in a Virginia militia and is listed in the DAR Index), Mary Kies, the first U.S. woman patentee, etc. Should the genealogical societies add "industry" to the virtues of their patriot ancestors?



CHEMPLOYMENT ABSTRACTS JULY 2004

CHEMPLOYMENT ABSTRACT 3738

Position Title: Chemistry Scientist

Job Description: The Chemistry Scientist is responsible for optimization of chemical leads for potency, selectivity, pharma-cokinetic profile, etc. Independently designs & synthesizes novel molecules with the required biol & physicochem properties to become candidates for clinical development.

QUALIFICATIONS DESIRED Education: Ph.D. in Org Chem & 0-2 years of aca-

demic postdoctoral training Experience: 0 to 5 years of prior pharmaceutical res exp. Proven track record of academic accomplishments required in org synthesis. Sound understanding of biol & pharmaceutical principles. Knowledge of structure-based or other computer-aided drug design tools. Knowledge of applying parallel-synthesis techniques to med chem.

LOCATION, SALARY, MAIL ADDRESS Location: South San Francisco, CA Salary: DOE

Description of Employer: Tularik is engaged in the discovery of novel and superior orally available medicines that act through the regulation of gene expression. Our scientists are expert at elucidating regulatory pathways and selecting the best targets for therapeutic intervention.

Application Instructions: e-mail or fax your resume with job code [Sci-Chem] to: Tularik Inc., Human Resources, 1120 Veterans Boulevard South San Francisco, CA 94080 e-mail: resume@tularik.com Fax: 650-825-7303

CHEMPLOYMENT ABSTRACT 3739

Position Title: Chem Research Associate Job Description: As multi-disciplinary research team, the Chemistry Research Associate is responsible for the synthesis of novel molecules and, working closely with senior members of the department, identifying drug candidates suitable for clinical development.

QUALIFICATIONS DESIRED Education: B.S. or M.S. in Chem & 2+ years of labo-

ratory experience in organic synthesis *Experience*: Demonstrated ability to work productively and independently in a quality research

environment. Willingness to set and achieve aggressive research goals

LOCATION, SALARY, MAIL ADDRESS Location: South San Francisco, CA

Salary: DOE Description of Employer. Tularik is engaged in the discovery of a broad range of novel and superior orally available medicines that act through the regulation of gene expression. Our scientists are expert at elucidating regulatory pathways and selecting the best targets for therapeutic intervention.

Application Instructions: For consideration for this job opening please mail, e-mail or fax your resume with job code [RA-Chem] to:

Tularik Inc., Human Resources 1120 Veterans Boulevard

South San Francisco, CA 94080

e-mail: resume@tularik.com Fax: 650.825.7303. Tularik is an equal opportunity employer. CHEMPLOYMENT ABSTRACT 3740

Position Title: Scientist - Drug Metabolism & Metabolite Identification

Job Description: As a key member in the Drug Metabolism & Bioanalysis Group department, you'll be responsible for in vitro & in vivo studies of SAR compounds & development candidates.

QUALIFICATIONS DESIRED Education: PhD in org chem

Education: PhD in org chem, natural products chem, med chem, biochem or a related field *Experience*: good knowledge of org chem/ drug metabolism/chromatography, expertise in metabolite identification using MS/MS & NMR, and strong hands-on skills with sample prep. automation techniques such as column switching, and LC/MSn. Adequate understanding of pharmacokinetics is a plus.

LOCATION, SALARY, MAIL ADDRESS Location: South San Francisco, CA Salary: DOE

Description of Employer. Tularik is engaged in the discovery of a broad range of novel and superior orally available medicines that act through the regulation of gene expression.

Application Instructions: With job code [Sci-DM-SM] to:

Tularik Inc., Human Resources 1120 Veterans Boulevard

South San Francisco, CA 94080

e-mail: resume@tularik.com; Fax: 650.825.7303. Tularik is an equal opportunity employer.

CHEMPLOYMENT ABSTRACT 3741

Position Title: Research Assistant/Associate Job Description: We seek a creative and productive contributor to join a dynamic and team-oriented research environment. Primary job duties include probe array synthesis and characterization using pro totype equipment.

QUALIFICATIONS DESIRED

Education: Familiarity w/basic molecular biological and microarray hybridization & data analysis techniques beneficial.

Experience: organic chemistry & phosphoramidite DNA chemistry: and experience with instrumentation and analytical methods (HPLC, NMR, UV-VIS spectroscopy, fluorescence spectroscopy).

LOCATION, SALARY, MAIL ADDRESS Location: Santa Clara, CA

Joennon: santa Clara, CA Salary: Attractive compensation & benefits and a stimulating, state-of-the-art research environment Description of Employer: Headquartered in Santa Clara, CA, Affymetrix (NASDAQ: AFFX) is dedicated to developing state-of-the-art technology for acquiring, analyzing & managing complex genetic information for use in biomedical research. We're a market leader in creating breakthrough tools that are driving the genomic revolution and accelerating the pace of scientific discovery.

Application Instructions: Email your resume to: jobs@affymetrix.com. Please reference the position title in the subject line of your email.

CHEMPLOYMENT ABSTRACTS JULY 2004

CHEMPLOYMENT ABSTRACT 3742	CHEMPLOYMENT ABSTRACT 3743	CHEMPLOYMENT ABSTRACT 3744	CHEMPLOYMENT ABSTRACT 3745
Position Title: PK Bioanalysis Scientist <i>lob Description:</i> As a key member in the Bioanalysis group of the PKDM dept, you'll be responsible for the quantitative bio-analysis of discovery compounds in complex biological matrices such as plasma, tissues, and bile supporting our PK/PD/TK studies. QUALIFICATION DESIRED <i>Education:</i> PhD in anal chem, org chem, biochem, oharmacol or related field required <i>Experisen in Pathematical Compounds</i> Expertise in high throughput LCM/NB bioanalysis through automation tech is essential. Adequate under- standing of pharmacolor tis is a plus. LOCATION, SALARY, MAIL ADDRESS <i>Location:</i> South San Francisco, CA <i>Salary:</i> DOE <i>Description of Employer.</i> Tularik is engaged in the discovery of a broad range of novel and superior orally available medicines that act through the regu- ation of gene expression. Application Instructions: For consideration for this ob opening please mail, e-mail or fax your resume with job code [Sci-PBA-SM] to: Tularik Inc., Human Resources 1120 Veterans Boulevard South San Francisco, CA 94080 e-mail: resume@tularik.com Fax. 650.825.7303	Position Title: Product Development Chemist/Engineer Job Description: Development work in following areas: I. Epoxy Asphalt paving materials and mixes to improve adhesion and high temperature performance. 2. Cold cure polymeric paving materials. 3. Bond concrete. QUALIFICATIONS DESIRED Education: Advanced degree in material science (chemistry). Experience: Ability to conduct physical testing. Prefer background in pavement technology. LOCATION, SALARY, MAIL ADDRESS Location: Redwood City. Salary and work scbedule: To be negotiated. Application Instructions.Contact Dr. Wolfgang Eisenhut Chemico Systems 2800 Bay Road Redwood City, CA 94063 650-261-3790 email: eisenhut@chemicosystems.com	 Position Title: Bench Chemist Job Description: Long Term Temp Position. Working in the pharmaceutical industry QUALIFICATIONS DESIRED Education: B.S. in Chemistry Experience: 2-5 years Experience, GPM, GLP, HPLC (no soil sampling). Must have pharmaceutical experience. LOCATION, SALARY, MAIL ADDRESS Location: Petaluma, CA Salary: \$17-19 DOE Description of Employer: Temporary assignment through our staffing agency for a client in the pharmaceutical industry. Application Instructions: Please email resume to elenah@certificdemployment group or fax to (707) 521-2154. All inquires contact Elena Herdman at (707) 521-2140 	Position Title: Scientist - Analytical Biochemistry Job Description: Will be responsible for assay devel- opment to support directed evolution of enzymes and strains for pharmaceutical and industrial chemi- cals manufacture and will also develop and imple- ment creative quantitative solutions at the interface between Chemistry, Microbiology, Molecular Biology and Process Development. QUALIFICATIONS DESIRED Education: Ph.D or equivalent in Biochemistry or Chemistry required Experience: Experience with a broad spectrum of analytical methods, in particular chiral analysis required. Biocatalysis and/or enzymology back- ground highly desirable, statistical design a plus. LOCATION, SALARY, MAIL ADDRESS Location: Redwood City, CA Salary: Depends on experience Description of Company: Codexis, a majority-owned subsidiary of Maxygen, Inc., is a leading provider of biocatalysis and fermentation processes and product to the global pharmaceutical and fine chemicals industry. Application Instructions: Email resumes to jobs@codexis.com referencing Job No. CDX-322.
CHEMPLOYMENT ABSTRACT 3746 Position Title: Organic Chemist Job Description: Responsible for working with engi- neering to develop highly reliable instrumentation for pharmaceutical synthesis & purification. Serve on product development teams & conduct testing & val- idation of products in process. Provide feedback & contribute to product design & specifications. Develop applications using Argonaut instrumentation & participate in the publication/presentation of sci- entific results. Track trends in industry & interface with customer base as required. QUALIFICATIONS DESIRED Education: BS, org chem, anal chem or Chem Engrg. Experience: Min 2-5 yrs in chem process research & development, preferably in pharmaceutical industry. Hands on lab exp utilizing automated instrumenta- tion for synthesis, purification or chem anal. Maintenance & troubleshooting of instrumentation in support of product research & development. Excellent verbal & written communication skills as shown through reports or publications & presentations. LOCATION, SALARY, MAIL ADDRESS Location: Foster City, CA (Moving to Redwood City this summer) Application Instructions: Send resume via e-mail, fax, or mail to: Human Resources, Argonaut Technologies, Inc. 101 Chess Drive. Foster City, CA 94404 Fax: 650-655-4300, email: hrinfo@argotech.com	CHEMPLOYMENT ABSTRACTS 3747 Position Title: Engineer, R&D Job Description: Needs in-depth knowledge and hands-on exp with IC as applied to sample prep, method development & maintenance for several ion Chromatography systems. Duties will include running similar functions for GC-MS & GC-FID systems as well. QUALIFICATIONS DESIRED Education: BS Chem or related field Experience: Minimum of 5 years industrial exp. Or an equivalent combination of education & exp. Problem solving skills & innovative approaches to complex anal. questions strongly desired.Good communication skills and ability to work under minimal supervision. IOCATION, SALARY, MAIL ADDRESS Location: San Jose Salary: Highly competitive salary & benefits Description of Employer: World's largest independent supplier of thin-film media for computer hard disk drives. Application Instructions: Send resume, indicating position to: Komag, Inc. Staffing Dept. 1710 Automation Parkway San Jose, CA 95131 or FAX: 408-944-9543 E-Mail: jobs@komag.com	 CHEMPLOYMENT ABSTRACTS 3748 Position Title: Staff Scientist Job Description: Synthesis and Development of processes used in the manufacturing of electro and photoactive materials. Physical and chemical characterization of organic and inorganic nanomaterials. QUALIFICATIONS DESIRED Education: MS or PhD in polymer or inorganic chemistry or related discipline, with strong interdisciplinary skills. Experience: Good knowledge of principles of modern synthetic chemistry, lead optimization & structure activity relationships is essential. Knowledge & Experience: Good knowledge of absorption spectroscopy, emission spectroscopy, thermalanalysis, X-ray diffraction, electron microscopy & modern chromatographic techniques. LOCATION, MAIL ADDRESS Location: Fremont Description of Employer: UltraDots, Inc. Is a nanomaterial/nanotechnology based company Application Instructions Please email your resume to jobs@ultradots.com 	CHEMPLOYMENT ABSTRACT 3749 Position Title: R&D Scientist Job Description: To be part of a team that works on R&D of a controlled drug delivery implantable med- ical device: The position will require reasonable expertise in areas of controlled drug delivery, med- ical devices and biomaterials. This position is very hands-on and involves the use of wet chemistry, analytical techniques such as HPLC/MS, GC/MS, dis- solution testing, etc. QUALIFICATIONS DESIRED Education: M.S. or Ph.D. in Biochemistry, Chemistry Pharmacology or related areas Experience: The ideal candidate will have a minimum of 5 years experience in the area of controlled drug delivery for medical devices with knowledge of polymer interactions, solubility and diffusion. It is important that the candidate knowl HPLC/MS, GS/MS operations and methods development LOCATION, SALARY, MAIL ADDRESS Location: Mountain View, CA (local candidates only please) Description of Employer: Broncus Technologies is developing Interventional Bronchoscopy devices for the treatment of emphysema. Broncus Technologies is singularly focused on developing proprietary and cost-effective technologies to address the unmet needs of patients with emphysema. Application Instructions: Email your resume to hr@broncus.com, Fax resume to 650-428-1542. No phone calls please
CHEMPLOYMENT ABSTRACT 3750 Position Title: R&D Chemist Job Description: The Chemist is responsible for per- forming chemical, pharmaceutical testing, validation, routine analysis of raw materials, drug stability, release testing, and product development support. Mastery of the day to day function of the R&D labo- ratory environment, which means maintaining and keeping current the SOP's and calibration of equip- ment & instruments. QUALIFICATIONS REQUIRED Education: B.S. or M.S. in Biochemistry, Chemistry or related areas <i>Experience:</i> The ideal candidate will have experi- ise in handling lab chemicals, operation of analytical instruments such as HPLC/MS, GC/MS, UV-Vis FTIR LOCATION, SALARY, MAIL ADDRESS Location: Mountain View, CA (local candidates only please) Description of Employer: Broncus Technologies is developing Interventional Bronchoscopy devices for the treatment of emphysema. Broncus Technologies is singularly focused on developing proprietary and cost-effective technologies to address the unmet needs of patients with emphysema. Application Instructions: Email resume to hr@broncus.com Fax resume to 650-428-1542 No phone calls please.	CHEMPLOYMENT ABSTRACT 3751 Position Title: Lecturer (part-time) Job Description: Part-time instructors are required to teach laboratory sections in lower-division organic and general chemistry courses at Santa Clara University for the fall quarter, 2004. For additional information, visit www.scu.edu/chemistry. QUALIFICATIONS DESIRED Education: M.S. required, but Ph.D. strongly pre- ferred. Experience: Previous teaching experience is desired. LOCATION, SALARY, MAIL ADDRESS Location: Santa Clara Salary: \$2,520 per section (maximum of 3 sections) Employer Description: Santa Clara University is an equal opportunity/affirmative action employer and welcomes applications from women, persons of color, members of other historically under-represent- ed U.S. ethnic groups, persons with disabilities, vet- erans, and Jesuits. Application Instructions: Send CV, copies of under- graduate and graduate transcripts, and have three letters of recommendation sent to Dr. Steven Fedder Department of Chemistry, Santa Clara University 500 El Camino Real Santa Clara, CA 95053 by July 14, 2004.	CHEMPLOYMENT ABSTRACTS 3752 Position Title: Clinical Study Planner Job Description: Manage entire proc of clinical study from inception to completion. Ability to bring multi- ple viewpoints/positions to final agreement. Good organizational skills with determined focus on team goals. Much flexibility to face ever changing priori- ties. Excellent communication skills QUALIFICATIONS DESIRED Education: BABS science related major-MAJOR-CER- TIFIED MT, PHLEBOTOMIST, OR NURSE A. <i>Experience</i> : 2-5 yrs in clinical setting working with clinical specimens. CLIA certified laboratory and/or other clinical exp. Good skills with relational DB exp a plus. Understanding of collection, processing, storage of various human clinical specimens. LOCATION, SALARY, MAIL ADDRESS <i>Location</i> : Redwood City <i>Salary</i> : \$65-75K Description of Employer. Investments have been made to assure we continue as a world-class biotechnology organization serving several markets. Application Instructions: Send resume to bspisak@nelsonstaffing.com or bspisak@nelsonhr.com	



SANTA CLARA VALLEY SECTION AMERICAN CHEMICAL SOCIETY P.O. Box 395, Palo Alto, CA 94302

JULY 2004 NEWSLETTER TOPICS:

History of Chemistry and the Joseph Priestley Bicentennial Jobs! Jobs! Jobs!

CHEMPLOYMENT ABSTRACTS

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Director: Shirley B. Radding 408-246-2564 sradding@att.net

FUTURE MEETINGS

Aug 22-26	ACS National Meeting Philadelphia, PA
Sep 16	SCV Dinner Meeting Chemistry and Industrial Hygiene William Wells Palo Alto, CA
Oct 17-23	National Chemistry Week
Oct 21-22	50th Anniversary Celebration SCV ACS Local Section
Oct 27-30	Western Regional Meeting Sacramento, CA

For the latest information, please visit SCV/ACS web site: *www.scvacs.org*

