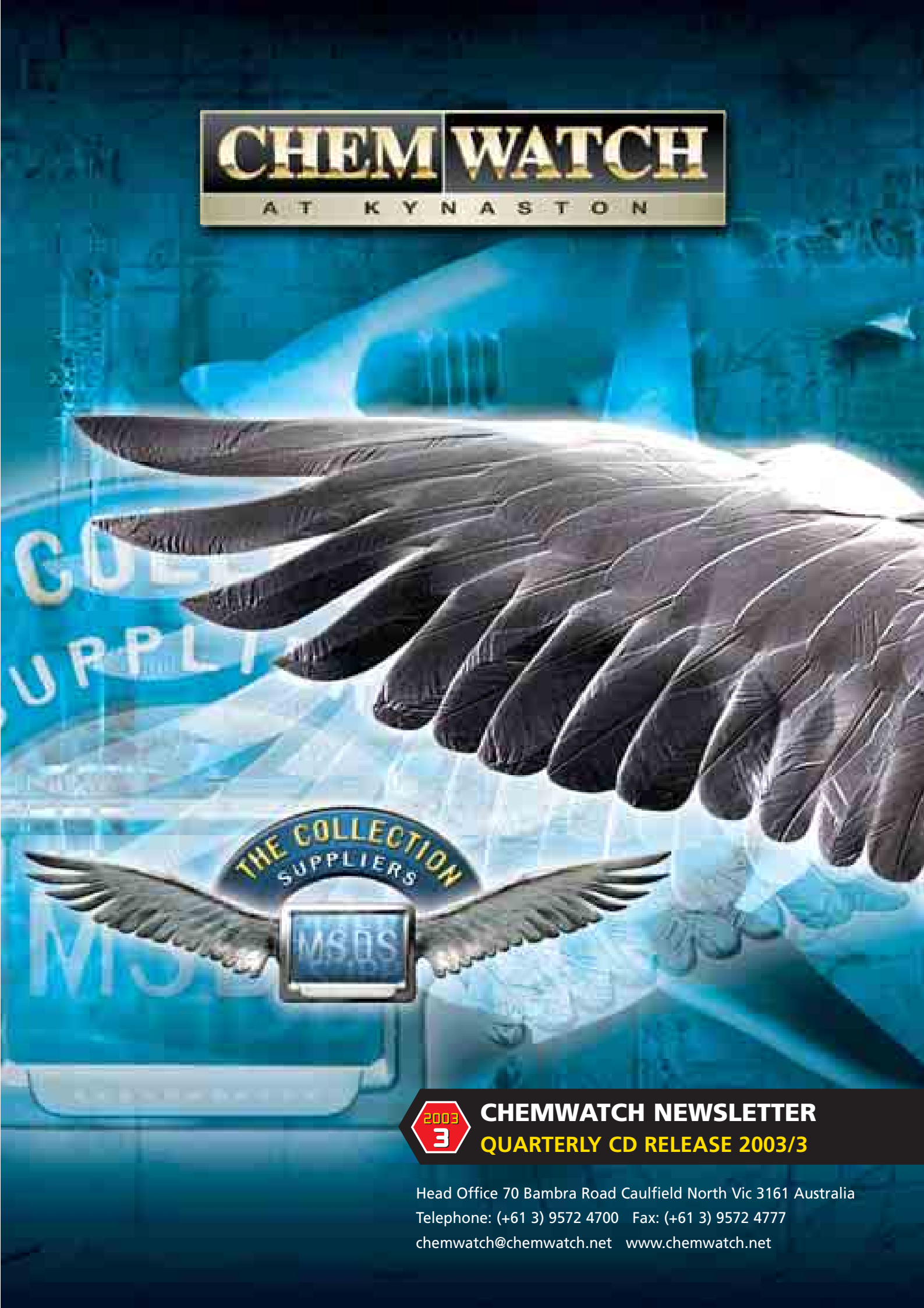


# CHEM WATCH

A T K Y N A S T O N



## CHEMWATCH NEWSLETTER

### QUARTERLY CD RELEASE 2003/3

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**Dear ChemWatch User,**

**Please find enclosed the newest release of the ChemWatch Package, CD 2003/3.**

## The Collection

Enclosed with this newsletter are details on a new product that is to be released this month.

The Collection is a very large database of MSDS, all original and all current.

The database has taken more than one year to create and now numbers more than one million. It continues to grow at a rapid rate – currently around 40,000 new MSDS are added monthly.

We believe that The Collection is the largest database of original supplier's MSDS anywhere. Other than its sheer size, what makes The Collection of greater interest is the level of indexing which supports a powerful search engine. We were intrigued to find that a search on "methanol" yielded more than 300 MSDS, all for methanol, from more than 100 suppliers. Some might ask the question "*why is such a resource significant – isn't a single methanol MSDS sufficient?*"

The answer will be clear to many – some jurisdictions (not all) require the actual MSDS from a particular supplier be available and The Collection addresses this need.

In the past, Chemwatch has provided scanned images, of the suppliers' MSDS, to support its independently researched documents. The growth of the Chemwatch market, worldwide, has necessitated the development of this new service; this enables us to remain ahead of market rather than to react to its needs.

In part, The Collection reflects what is currently found on the Web and in part it represents an existing large library of

scanned documents. All are indexed on several parameters and a specialized search engine has been developed to produce maximum returns on particular queries in the minimum time.



Because The Collection is vast, it can only be delivered on the Web. Therefore password or IP address access is required. However, any subscriber is able to create a portfolio of MSDS specific to their own interests and store these on the Chemwatch Server, on their own Server or on their own local drive.

Certain Users may, if they nominate, receive the whole Collection for installation on a company or corporate Intranet.

### AutoAlerts

Having created a specific portfolio, the User has, in the process, also alerted Chemwatch of a specific interest in particular documents. This then allows Chemwatch to maintain a watching brief on particular MSDS on behalf of clients.

Amongst other developments supporting The Collection, is a sophisticated Web Crawler that visits each web-based MSDS, regularly, and determines whether it has changed since the last visit. When a change is identified, the User is alerted of the change, immediately, by email. The exact nature of the change is also advised. Moreover, the MSDS may be viewed, from the email, and the changes are highlighted by an electronic "marker pen".

We believe this Service is unique; additional technologies are currently in development to enhance the presentation even further.

### Costs

An additional charge will apply to The Collection; this will, in general, add 30% to the annual maintenance fee and will cover additional download and bandwidth costs that we must meet. Because we expect The Collection to be a popular addition to our range of products we have invested in additional hardware and increased the "pipe diameter" on which we deliver the Service. Load-sharing between our Servers, located on three continents, is envisaged in the near future.

For details contact us at [chemwatch@chemwatch.net](mailto:chemwatch@chemwatch.net).

A new Web site is currently in development and details of this will appear with the next release.

## Environmental Applications

Our affiliate Applied Science Associates (ASA) utilized its Chemical Dispersion Model System, CHEMMAP, to analyze environmental risks associated with chemical products used in deepwater oil and gas operations in the Gulf of Mexico. The study was performed for Minerals Management Service (MMS), which is part of the U.S. Department of Interior. The steps in the risk analysis were:

- Identify potential natural resource receptors (map biological resources of concern)
- Develop spill/discharge worst case scenarios (chemicals, volumes, etc.)
- Conduct spill modeling using the stochastic model in CHEMMAP
- Assess potential environmental impacts

In the stochastic model, many runs are made for each release scenario and location. Using a historical wind and current record for a location, the model randomizes spill dates, and thus the wind and current conditions. An effects endpoint is selected based on toxicity data, which provides a threshold above which probabilities and expected concentrations are reported. Model output includes maps of chemical:

- mass or volume on the water surface
- mass or volume on shorelines
- particulate concentration in the water
- dissolved concentration in the water
- concentration adsorbed to suspended sediments in the water
- mass and concentration in the sediments

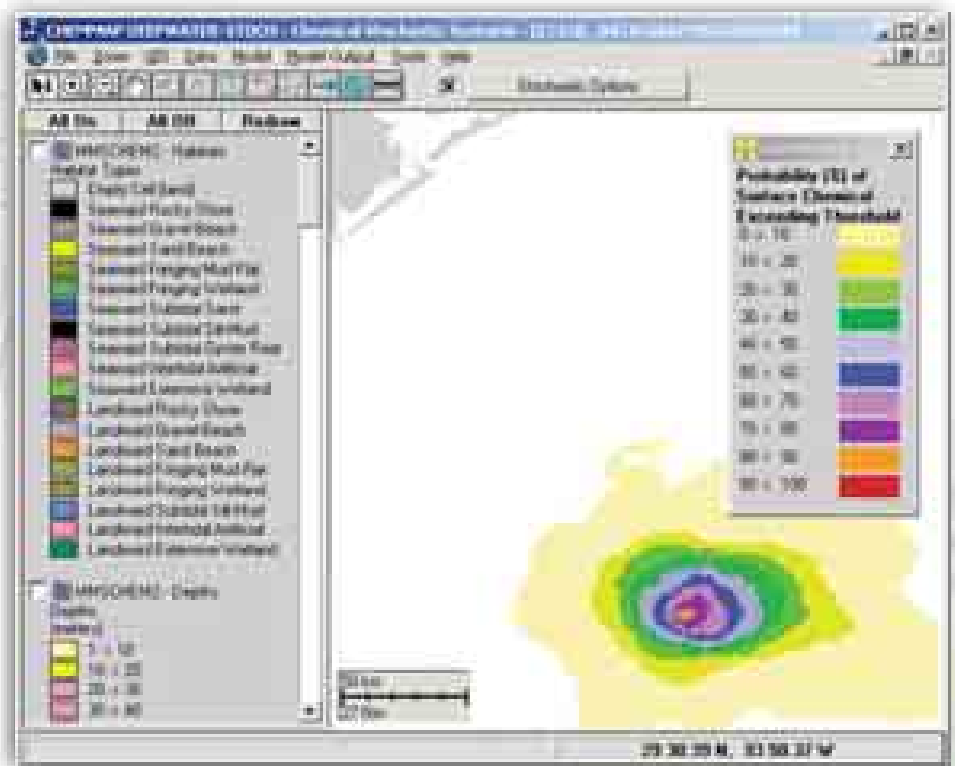
Statistics are produced for each location in the model grid. These are displayed in contour maps, which may be overlaid on maps of receptors of concern. Statistics on all model runs may be viewed in total (as probabilities) or individually. The outputs are:

- probability of (any) amount exceeding the threshold passing that location
- time when amount first exceeds the threshold at the location
- mean expected maximum mass or concentration at the location (i.e., mean of all runs)

- worst case (maximum possible) amount that could hit a location (i.e., maximum of all runs)
- start date and time for run producing the worst case at the location

Seventeen scenarios were run for hypothetical spills offshore in the Gulf of Mexico. An assessment of potential ecological risks is based on these modeling results.

This analysis focused on ecological risks, and did not include assessment of human health issues. However, with the linkage between CHEMMAP and ChemWatch, human health concerns could now be analyzed. Using the extensive amount of human health toxicological data contained within ChemWatch's MSDS database, statistical output could be generated to access areas of concern.



For more information on this study or how to obtain the CHEMMAP system with the link to ChemWatch please contact Nicole Whittier (nwhittier@appsci.com).

**Nicole Whittier is editor of ASA's Marine Environmental Newsletter**

## Bulletin Board

Our weekly Bulletin – technical news, legislation and gossip relevant to the health and safety industry – has taken on a new image over the last few months. It's been great fun ramping it up and adding some interesting graphics, which we've purchased to use in our new product promotions. We've also developed a great comic strip Chronic Man to be released soon – complete with Tshirts and mouse mats, or in this case rat mats. Stay tuned, we're going to have a lot of fun with these new characters.

We've enjoyed the comments and reader reaction as well, and encourage it, particularly the debate about the old English word 'scitan'. We have had some feedback from people who like to print out the bulletin, that the new format is ink-intensive. We appreciate that point but we've designed it for electronic publication, however we do have a text only version available if anyone would like to subscribe to that service as well. It is also a substantially reduced file size for those who have incoming file size restrictions.



If you'd like a chance to win a Chronic Man T-shirt, send us your caption for the photo of Paul Ruez (USA), and see how you can relate your bull story to Occupational Health ! Captions to: [janet@chemwatch.net](mailto:janet@chemwatch.net)

### The chronicles of Chronic Man coming soon...

*Upholders of good practice:  
Chronic Man, Oral Rat and Acute Girl,  
face the perils of Lethal Does.  
The spills and thrills  
of their hazards and adventures,  
as they fight the evil of Lethal Does,  
will add a new dimension to your  
chemicals management.*

**ACUTE GIRL**



**LETHAL DOES**



**CHRONIC MAN**



**ORAL RAT**



When I took on the Bulletin, the idea of publishing electronically offered advantages such as not being fixed to the same desk. Working remotely is easy with internet and laptops, however I didn't envisage being as remote as July/August's coming editions. These will be produced from Vienna and Poland for a few weeks while I take on the editorship of a publication at the world gliding championships at Leszno in Poland. So, you could say the Bulletin will soar to new heights.

...Editor, Janet Hider Smith

## Asian Diary

### Asian News

The spring period for Asian/Asean business was obviously seriously affected by the SARS crisis. We were, nevertheless, kept extremely busy doing substantial amounts of training to support our new clients. We provided training throughout the region for GE Aero at facilities in Malaysia, Thailand (2 locations) and in Singapore. In addition we have started our Hazop training course for Cadbury's staff for Thailand and India.

Further training for Mattel in Malaysia also featured in this quarter. A major effort into the Middle East has seen the appointment of a regional distributor, the Bin Salim Group, in Muscat, the Sultanate of Oman. We have made substantial progress at the Ministerial level and look well placed to help to implement the Royal Decrees requiring chemical substance management. With the Arabic version of the labels and MSDS there is an immediate benefit within the Gulf region.

The recently published Gulf Co-operative Council legislation, on a wide range of chemical safety management requirements (see the Chemwatch Galleria database on legislation for more detail), will create a whole range of compliance problems for chemical users/transporters/warehouse, etc., throughout the area.

The new agency is Bin Salim Enterprises LLC, Al Rawahy Bldg, PO Box 808, Muscat, Postal Code 113, Sultanate of Oman, Tel Contact 968-563 078. General manager Mr. Ken Paton.

A second initiative in the Asian region has produced a working relationship with the Japanese Chemical Database Company. We will be presenting the Chemwatch Gold II database to industry at a series of forums in both Osaka and Tokyo in July to launch the Chemwatch database – Japanese version. Consequently, we now have the following new contact and base in Tokyo: Hiroshi Koyanagi JCDB, Address: Daiichimarusan Building, 3rd Floor, 3-9, Kandajinbo-cho, Chiyoda-Ku, Tokyo, 101-0051 Japan.

The Japanese Chemical Database Company has a strong working relationship with the Japanese Chemical Manufacturing (JCM) Industry. They currently supply a web-based chemical information system to the JCM.

Hazardous Communication information in Japan has, in principle, been centred on the label data. With the relatively recent agreement for global harmonisation on chemical classification/labelling, and the current health hazard label requirements along with the universal need for MSDS in the rest of the world, there is a pressing need for access to integrated chemical safety information.

With this in mind, Chemwatch – the world leader in such programs – has agreed to co-operate with the JCDB Company in providing such services to the Japanese Chemical Industry.

With their local knowledge, and their existing web server set-up, coupled to the comprehensive availability of the chemical safety data on the Chemwatch program, we look forward providing a professional service to the JCM industry.

### China

ChemWatch is gradually making a strong impression in China, with initiation of the email and normal mail campaign. The senior leader from the State Administration of Work Safety (SAWS) spoke highly of our systems when we showed her how to safely handle the disinfectants of peroxyacetic acid for the disinfection of SARS. The National Registration Centre for Chemicals (NRCC) welcomes a new university graduate who will take on the responsibility for promoting the Chemwatch package in China.

NRCC also appointed a new office executive director, Ms. Guo Xiuyun, who completed a BS in Occupational Hygiene & Health at BMU, with rich expertise in the field of occupational health. She, together with the vice executive director, Mr. Li Yuncai, will lead NRCC to face the accelerating demands of chemicals' safety management in China.

With the hazardous chemicals registration work officially started, many new chemicals and unclassified chemicals, especially mixtures, need to be tested and classified before they are correctly labelled and communicated with the correct MSDS. To better manage and control the chemicals testing labs, SAWS will be authorizing incorporation of the service to the relevant labs. I just finished a week of investigating labs to form my first impression of the present state of these labs in China.

### Ye Congsheng (pictured) NRCC, China



*The back of Ye Consheng, what is this man hiding?*

## American Diary

In the United States the Office of Homeland Security has been dominating the news as it helps focus the federal, state and local agencies to address threats within US borders. At the federal level, agencies from the Coast Guard to the FBI and at the local level the Fire Departments and the LEPCs – all working together now – are searching for tools to help them respond to chemical and biological emergencies.



*Paul Ruez displaying ChemWatch to a rapt audience at the American Industrial Hygiene Conference in Dallas.*

ChemWatch has been serving these markets globally for more than a decade and Jim Woods and Paul Ruez are finding an eager audience, within these organizations, for the new North American version of ChemWatch.

ChemWatchNA was invited to exhibit at the International Association of Fire Chiefs in Baltimore, Maryland where they were visited by Fire Departments and Hazmat units from across the country as well as chemical and biochemical threat specialists from all branches of the military.

Paul is travelling to College Station, Texas in July, where the Texas A&M Emergency Services Training Institute, part of Texas A&M University, is hosting an international gathering of responders. This prestigious organization trains responders from around the world and annually hosts a week of specialized instruction for municipal fire fighters and responders from the US and South America. Texas A&M uses ChemWatch as part of its training and Paul will be demonstrating how some of the ChemWatch tools can assist these professionals.

The Campus Safety, Health and Environmental Management Association, sharing the wisdom and experience of EHS professionals from colleges and universities across North America, has their annual meeting at Vanderbilt University in Nashville, TN. This is Dr. Jim Wood's Alma Mater and the home office of ChemWatch North America. Jim and Paul will be setting up their new booth at the CSHEMA show and look forward to visiting with many friends and clients from this market.

Speaking of clients, we have made some new friends as well as clients at the National Institute for Drug Abuse (NIDA), part of the National Institute of Health (NIH) in Baltimore, Maryland. The Schlumberger Houston Laboratories recently loaded ChemWatch and Theresa Barber looks forward to using the chemical information and chemical tracking tools in her work. We are also proud to add the NASA Ames Research Center in California as a new client and look forward to working with the professionals there.

The heat we are feeling in the US might be summer approaching but it could also be generated from the furious work done by Bernie and his crew as they ready the new ChemWatch products for market. Paul has been working with THE COLLECTION (over one million supplier MSDSs) for some time now and he and Jim have been testing the new GALLERIA CHEMICA – combining over 500 separate global databases. Good work Melbourne, India and all the others who have contributed!

**Jim Wood and Paul Ruez**  
**ChemWatch North America**



## Our Melbourne People



### Michelle Copocean

Michelle joined us at Kynaston, during May this year, as part of the chemical team writing MSDSs. She comes to us with ten year's experience within the toxicology and food testing laboratories for the Sanitary and Preventative Medicine authorities in her native Romania.

Graduating from Babes-Bolyai University, Faculty of Chemistry

from Cluj-Napoca Romania, she has a bachelor degree in Chemistry of building materials – Bachelor of Chemical Engineering. Australia has been Michelle's home now for three years.

### Arthur Stabolidis

Arthur Stabolidis also joined us at Kynaston in June to assist in training and database management. As well, he will be responsible for creating on-line demos and developing training tools for Chemgold II.

Arthur has a background in IT and Training. He studied Computer Science at the University of Adelaide and completed his Bachelor's degree in 1995. Relevant projects included a chemical tracking system for Brauer Biotherapies designed to track chemicals used in their products and give them a concise report whenever they needed to do a recall of their goods.

### Claude on the move

Development of GALLERIA CHEMICA (A massive composite database of almost anything chemical) has spread to the UK, where part of our team (Claude Neri) has re-located for a time, but continues to work tirelessly on defining chemical incompatibility at a molecular level. This feature is soon to be built into the ChemWatch manifest and storage module, as well as being an integral part of Galleria Chemica. The module will ultimately identify incompatibilities intelligently by looking at the functional groups within the molecular structures, rather than relying on predefined lists. Our massive collection of molecular structures, along with the ability for users to draw and add their own structures for analysis, will make Galleria Chemica (along with ChemWatch) even more powerful chemical management systems.



Arthur at his desk.

## Customer Satisfaction Survey

The Quality team has been receiving a steady stream of responses to the Customer Satisfaction Survey. On the whole, the surveys have reflected a positive customer response to the Chemwatch products, whilst providing us great insight into target areas for improvement.

There has been a really broad range of ideas and suggestions for improvement submitted in the survey. The ideas ranged from problems with labels, to software updates through to suggestions for improving our search facility in our program. Where required, we are working with the individual customers to improve our service, and we are also using the responses to

improve specific areas of our business. For example, a number of our customers were unaware of our training courses and documentation – so we will be working to provide more information in this area.

We really appreciate our customers taking the time to complete the survey. It gives us a good understanding of their needs – so we encourage any further potential survey respondents to pick up a pen and fill in the quick survey ! There is no time limit on sending in a response !!

If you would like a copy of the form – please email [qamanager@chemwatch.net](mailto:qamanager@chemwatch.net).

## ChemWatch Australia Training Dates

### Adelaide

October 14 – Level 1  
October 15 – Chemweb Gold

### Brisbane

September 9 – Level 1  
September 10 – Chemweb Gold  
November 18 – Level 1  
November 19 – Risk Assessment/Custom Labels

### Cairns

October 28 – Level 1  
October 29 – Chemweb Gold

### Canberra

September 23 – Level 1  
September 24 – Chemweb Gold

### Launceston

October 7 – Level 1  
October 8 – Risk Assessment/Custom Labels

### Melbourne

August 26 – Risk Assessment/Custom Labels  
August 27 – Level 1  
November 11 – Level 1  
November 12 – Chemweb Gold

### Newcastle

October 21 – Level 1  
October 22 – Risk Assessment/Custom Labels

### Perth

September 2 – Level 1  
September 3 – Risk Assessment/Custom Labels

### Sydney

September 16 – Level 1  
September 17 – Chemweb Gold  
November 25 – Level 1  
November 26 – Risk Assessment/Custom Labels

### Darwin

Please contact Chemwatch for the latest dates

The Chemwatch training section has said goodbye to Amber Sinclair and hello to Arthur Stabolidis in the past three months. Arthur's is the new voice you can expect to hear on the end of the phone for your training enquiries. As we'd planned a particularly busy June, the changes meant Michael and Richard had a pretty interesting time of it. Arthur is learning the ropes and we'll start sending him out in September.

## ChemWatch Affiliate Companies

### Global Chemical Data Inc.

Tennessee USA  
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Nashville, Tennessee 37212  
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Fax: +1-615-269-6872  
Email: [info@globalchemicaldata.com](mailto:info@globalchemicaldata.com)  
Web: [www.globalchemicaldata.com](http://www.globalchemicaldata.com)

### Vertere

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Web: [www.vertere.com](http://www.vertere.com)

### Applied Science Associates

Rhode Island USA  
70 Dean Krauss Drive  
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02882-1143  
Web: [www.appsci.com](http://www.appsci.com)

### ChemSW

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Email: [info@kemikaxxi.com](mailto:info@kemikaxxi.com)  
Web: [www.kemikaxxi.com](http://www.kemikaxxi.com)

### National Registration Center for Chemicals (NRCC)

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218 Yan An San Road  
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Web: [www.nrcc.com.cn](http://www.nrcc.com.cn)

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