medichem

Your Key to Excellence for Occupational Health in the Chemical Industry

By joining Medichem, you will have access to learning, mentoring, and education.

You will also receive technical support, advice, and expertise from occupational and environmental health specialists around the world.

Additionally, you will have unparalleled opportunities to network and collaborate with peers in the development and promotion of occupational health in the chemical industry.

medichem.world

WE ARE ALL ABOUT SUSTAINABILITY

The 17 Sustainable Development Goals of the United Nations interconnect and are based on both physical and chemical principles as well as social justice and human rights. Many goals relate to the use of chemicals. Medichem asserts that managing chemical exposure in workplaces and communities is essential for achieving these goals. Therefore, Medichem calls for guiding principles for the chemical sector.

ABOUT US

Medichem was established in 1972 and is the international scientific association for occupational and environmental health in the production and use of chemicals. It has a worldwide membership.

It is the home of all occupational & environmental health professionals, such as occupational physicians, toxicologists, occupational hygienists, epidemiologists, occupational psychologists, safety engineers and managers, regulators, occupational health nurses, and others of graduate status with an interest in occupational and environmental health, whether from industry, university, government departments or institutions.

OBJECTIVES

Medichem's prime objective is international cooperation in those occupational and environmental health issues related to the production and use of chemicals that are of global concern and that are most effectively resolved through a globally coordinated approach. Our underlying objective is to contribute to the prevention of adverse effects on employees, customers and the general public, arising from the production and handling of chemicals.

WHO CAN JOIN

All occupational and environmental health professionals, such as occupational physicians, toxicologists, occupational hygienists, epidemiologists, safety engineers and managers, regulators, occupational health nurses, and others of an interest in occupational and environmental health, whether from industry, university, government departments or institutions, are invited to apply for membership.

The International Commission on Occupational Health (ICOH) is an international non-governmental professional society which today is the world's leading international scientific society in the field of occupational health with a membership of 2,000 professionals from 105 countries. Medichem is affiliated with the ICOH.

HOW TO JOIN

01 Click on the link or vist medichem.world

02 Complete the application form

03 Pay €40 for 1 year or €100 for 3 years through PayPal or bank transfer

04 Receive verification of your new membership status with materials

Please send an e-mail if you have any questions or for access to:

info@medichem.world

Newsletters | Archives | Publications | Events | Webinars | Members community

Benefits of Medichem Membership

- Join webinars
- Interaction with decision-makers from the worldwide international occupational health community and experts from international and regional organizations.
- Promotion of international cooperation between Medichem Members as well as with different stakeholders of the chemical industry.
- Belonging to an international network which provides and promotes opportunities for members to exchange information and ideas relating to sustainability of occupational and environmental health in the production and use of chemicals.
- Having access to a National Representative as direct contact person in currently 39 Countries on application.
- Participate in high-level, specialized annual International Medichem Congresses, both in-person and online, at a reduced fee. The Congress attracts high-quality scientific papers and presenters, offering opportunities to stay updated on new scientific developments and trends.

- The receipt of the proceedings of each Congress without additional charges. The proceedings are published in a peer reviewed scientific journal when appropriate.

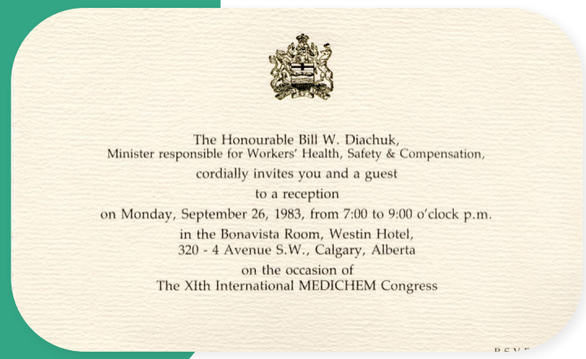
- Receive two to three annual newsletters featuring global articles of interest, Medichem news, and upcoming events. Access our archives for photos, newsletters, and publications.

- The Medichem Homepage medichem.world with general information on Medichem, like Board Members, Congress dates, and Newsletters, as well as with specialized information, including helpful links and online databases covering occupational and environmental health issues.

- Gain access to the Members Community at medichem.world, which includes a list of members by country with their fields of interest and expertise, facilitating connections among members. Additionally, access Medichem-specific information such as the Constitution, minutes of meetings, scientific reports, and historical archives.

- As an occupational health professional in training competing for the Medichem Prize if the annual Medichem Congress is held in his or her country.

- The opportunity to be awarded a Scholarship to enable individuals to present scientific papers at Medichem's Congresses.



The Honourable Bill W. Diachuk,
Minister responsible for Workers' Health, Safety & Compensation,
cordially invites you and a guest
to a reception
on Monday, September 26, 1983, from 7:00 to 9:00 o'clock p.m.
in the Bonavista Room, Westin Hotel,
320 - 4 Avenue S.W., Calgary, Alberta
on the occasion of
The XIth International MEDICHEM Congress

Who can Become Sustaining Members of Medichem?

Any industry, organization or institution may become a Sustaining Member of Medichem by making a financial contribution to Medichem.

The fee is €800 for 5 company members. It includes benefits for awards, congresses, and publications.

If you are interested to become a Sustaining Member of Medichem, please discuss this matter with either the Secretary General or the President or the Treasurer of Medichem.

Information relating to worldwide developments in the Occupational Health in the Chemical Industry is shared with members on a regular basis in Newsletters.

OUR MEMBERSHIP PLANS

We are a international scientific association focusing on occupational and environmental health in the production and handling of chemicals. Medichem has a worldwide membership. We offer annual membership for €40 and a triennial membership (3 years) for €100.

Who can join?

All occupational and environmental health professionals, such as occupational physicians, toxicologists, occupational hygienists, epidemiologists, occupational psychologists, safety engineers and managers, regulators, occupational health nurses, and others with an interest in occupational and environmental health, whether from industry, universities, government departments, or institutions.

Why join MEDICHEM?

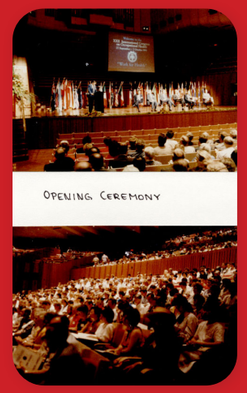
As an occupational health specialist, the challenges you face are more complex and urgent than at any time in recent decades.

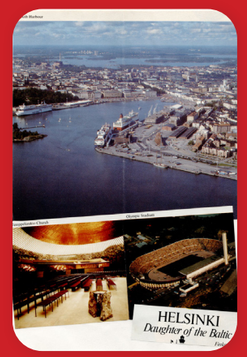
As a global international scientific association bringing together experts concerned with occupational and environmental health in the production and handling of chemicals, Medichem is uniquely positioned to support you and your institution in responding to these challenges.

"Your Key to Excellence for Occupational Health in the Chemical Sector."

CONGRESSES

2024 Marrakesh, Morocco (ICOH)
2023 Dresden, Germany: 50th Anniversary
2022 First Online congress
2021 Melbourne (ICOH), Australia
2020 India Occupational Health Association Joint Congress (OCCUCON)
2019 South Africa (SASOM-Medichem Joint Congress)
2018 Dublin, Ireland (ICOH)
2017 Vienna, Austria
2016 Basel, Switzerland
2015 Seoul (ICOH), Korea
2012 Cancun (ICOH), Mexico
2011 Heidelberg, Germany
2010 Taipei, Taiwan
2009 Cape Town (ICOH), South Africa
2008 Amsterdam, Netherlands
2007 Querétaro, Mexico
2006 Milano (ICOH), Italy
2005 Goa, India
2004 Paris, France
2003 Iguassú Falls (ICOH), Brasil
2002 Baltimore, USA
2001 Prague, Czech Republic
2000 Singapore (ICOH), Singapore
1999 Vienna, Austria
1998 Cape Town, South Africa
1997 Varna, Bulgaria
1996 Stockholm (ICOH), Sweden
1995 Boston, USA
1994 Melbourne, Australia
1993 Nice (ICOH), France
1992 London, United Kingdom
1991 Basel, Switzerland
1990 Montréal (ICOH), Canada
1989 Kraków, Poland
1988 Helsinki, Finland
1987 Sydney (ICOH), Australia
1986 Ludwigshafen, Germany
1985 Salvador de Bahia, Brasil
1984 Dublin (ICOH), Ireland
1983 Calgary, Canada
1982 Paris, France
1981 Aswan/Cairo (ICOH), Egypt
1980 Tokyo, Japan
1979 Gera, German Democratic Republic
1978 Dubrovnik (ICOH), Yugoslavia
1977 San Francisco, USA
1976 Hafia, Israel
1975 Brighton (ICOH), United Kingdom
1974 Milano, Italy
1972 Ludwigshafen, Germany





OUR CONGRESS

Historic congresses are accessible. The Congress attracts high-standard papers and presenters, offering opportunities to stay updated with past & present scientific developments and trends.

Typical attendees are occupational and environmental health professionals such as occupational physicians, hygienists, toxicologists, epidemiologists, psychologists, safety engineers and managers, regulators, occupational health nurses in occupational and environmental health from industry, universities, and government institutions.

CASE STUDY

Practical approach to chemical exposure management - example of latest national regulations South Africa

The lifecycle of chemicals in the chemical sector broadly involves the stages of research and development (R&D), production, distribution, use/application, and disposal. Each stage encompasses a variety of activities aimed at ensuring the chemicals are developed, produced, used, and disposed of in ways that maximize their efficacy while minimizing potential negative impacts on human health and the environment. Here's an overview of each stage in the lifecycle of chemicals

- **01** Research and Development (R&D)
- **02** Production
- **03** Distribution
- **04** Use/Application
- **05** Monitoring and Management
- **06** Disposal

01 Research and Development

Objective: Innovate and develop new chemicals or improve existing ones to meet specific needs and regulatory requirements.

Activities:

Discovery: Identifying new chemical compounds or modifying existing ones to achieve desired properties.

Laboratory Testing: Conducting extensive lab tests to determine the chemical's properties, efficacy, and safety.

Field Trials: Performing real-world trials to evaluate the performance and impact of the chemical in practical applications.

Regulatory Compliance: Compiling and submitting data to regulatory authorities (e.g., EPA, REACH) to gain approval, ensuring the chemical meets safety and environmental standards.

02 Production

Objective: Manufacture chemicals at scale while maintaining high standards of quality and safety.

Activities:

Chemical Synthesis: Producing the chemical compounds through various chemical reactions and processes.

Formulation: Combining active ingredients with other substances to create a final product suitable for end use.

Quality Control: Testing and monitoring the production process to ensure the chemical meets specified standards and regulations.

Environmental Controls: Implementing measures to minimize emissions, waste, and other environmental impacts during production.

03 Distribution

Objective: Efficiently and safely transport chemicals from the production facility to the end-users or retailers.

Activities:
Packaging: Ensuring chemicals are packaged in containers that prevent leakage, degradation, and contamination.
Transportation: Moving chemicals using safe and regulated methods to prevent accidents and spills.
Storage: Storing chemicals under conditions that preserve their stability and safety until they are needed.

04 Use/Application

Objective: Apply chemicals in a manner that maximizes their intended benefits while minimizing risks to health and the environment.

Activities:
User Training: Educating users on proper handling, application, and safety measures.
Application Methods: Using appropriate equipment and techniques for the effective and safe application of chemicals.
Safety Measures: Implementing protocols to protect users and the environment, such as wearing PPE and following recommended dosages.

05 Monitoring and Management

Objective: Ensure the chemicals are performing as expected and manage any adverse effects.

Activities:
Effectiveness Monitoring: Regularly assessing the performance of chemicals in achieving their intended outcomes.
Safety Monitoring: Continuously monitoring for any adverse health or environmental effects.
Regulatory Compliance: Ensuring ongoing compliance with regulations and updating practices as necessary.

06 Disposal

Objective: Safely dispose of unused chemicals and containers to prevent environmental contamination and human exposure.

Activities:
Handling Unused Chemicals: Following guidelines for the disposal or recycling of unused chemicals.
Container Disposal: Proper cleaning and disposal or recycling of chemical containers.
Decontamination: Ensuring equipment and storage areas are cleaned to prevent residual contamination.

Environmental Impact:
Waste Management: Implementing strategies to reduce waste and manage it safely.
Pollution Control: Using technologies and practices to minimize emissions and prevent pollution during production, use, and disposal.
Sustainable Practices: Developing and promoting the use of greener, more sustainable chemicals.

Health Impact:
Exposure Control: Reducing occupational and consumer exposure to hazardous chemicals through safety measures and regulations.
Toxicity Testing: Conducting comprehensive toxicity testing to understand and mitigate health risks.

Innovations and Sustainability:
Green Chemistry:
Design for Environment (DfE): Developing chemicals that are less hazardous and more environmentally friendly.
Biodegradability: Creating chemicals that break down more easily and safely in the environment.

Technological Advancements:
Nanotechnology: Utilizing nanomaterials to improve the delivery and efficacy of chemicals, reducing the quantity needed.
Precision Application: Employing advanced technologies like drones, sensors, and AI for more precise applications, reducing waste and environmental impact.

Regulatory and Policy Development:
Stricter Regulations: Implementing and enforcing stricter regulations to ensure chemicals are used safely and responsibly.
Incentives for Sustainable Practices: Providing incentives for companies to develop and adopt sustainable chemical practices.

The lifecycle of chemicals in the chemical sector is a complex process requiring careful management to balance efficacy with safety and sustainability. Innovations in green chemistry, advancements in technology, and stringent regulatory frameworks play crucial roles in ensuring this balance.

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