A decade of progress, a decade of promise
Going the distance to prevent occupational and environmental skin exposures

Nearly a decade has passed since the inaugural OEESC took place in 2002 in Washington, DC. Significant progress has been made with regards to knowledge and awareness of dermal exposure and diseases. The OEESCs with their multidisciplinary approach and plenary sessions have contributed substantially to knowledge exchange between researchers and practitioners around the world. Although many of these themes will look familiar, for each of the plenary sessions, the goal is to have keynote speakers summarize advancements achieved during the decade of progress and provide their vision for the decade of promise where the ultimate goal is delivering the science (ie., knowledge exchange) in a form the practitioner can readily implement.

June 5 - 8
Toronto, Canada
OEESC 2011
5th International Conference on Occupational and Environmental Exposure of Skin to Chemicals
www.oeesc.org

Sponsored by:

UNIVERSITY OF TORONTO
DALLA LANA SCHOOL OF PUBLIC HEALTH

St. Michael’s
Inspired Care. Inspiring Science.

www.oeesc.org
SUNDAY, JUNE 5th 2011

08:00  
Registration  
Victoria College, University of Toronto

09:00 to 10:30  
Clinical Workshop  
Rosemary Nixon, Melanie Pratt, Swen John  
To include: diagnosis, patch testing, management, interesting cases  
Diagnosis of Occupational Contact Dermatitis  
Rosemary Nixon (Australia)  
Interesting Cases from the Ottawa Hospital Patch Test Clinic  
Melanie Pratt (Canada)  
Prevention of Occupational Skin Disease in a Clinical and International Context  
Swen John (Germany)

10:30 to 11:00  
Break

11:00 to 12:00  
Clinical Workshop, continued  
Oral Abstract Presentations:  
(10 min presentations with 2-5 minutes for questions)  
3812  Variation in Allergen Content Over Time of Acrylates/Methacrylates in Patch Test Preparations  
3837/  Combined – New Abstract the Impact of a Multidisciplinary Team and a Dedicated Return to Work Co-Ordinator for Workers with Work-Related Skin Disease  
3847  An Integrated Inpatient/Outpatient Rehabilitation Program - The German Approach  
3851  Patient Safety Tools Including Check Lists in Occupational Medicine and Dermatology

12:00 to 13:00  
Lunch (not provided)

13:00 to 13:30  
Welcome  
Conference Co-Chairs: Linn Holness (Canada) and Irena Kudla (Canada)

Oral Abstract Presentation:  
3843  Knowledge Translation of Research in Occupational Skin Disease - The Creod Experience

Plenary Session 1:  
Defining the Problem, Health Effects, Burden of Disease, Causation & Outcomes  
The goal of the keynote(s) for this session will be to summarize the current state-of-the-art with respect to burden of disease, causation and outcomes.  
Future expectations/challenges will be presented.  
Chair: Melanie Pratt (Canada) - TBC

13:30 to 14:15  
Keynote 1  
Thomas Diepgen (Germany)  
Defining the Problem: Causation, Burden of Disease  
(35 minutes presentation, 10 minutes interactive discussion)

14:15 to 14:45  
Keynote 2  
Tove Agner (Denmark)  
Defining the Problem: Causation, Burden of Disease  
(20 minutes presentation, 10 minutes interactive discussion)
SUNDAY, JUNE 5th 2011

14:45 to 15:15pm  
**Break for Coffee/Poster Viewing** (Clinical Theme)

**Poster Abstract Presentations:**
- 3805  To Investigate Some Manifestation of Allergic Reaction in People Exposed to Chemical
- 3712  Skin Morbidity Among Construction Site Workers
- 3831  Study on Working Conditions and Epidemiology of Urticaria in Workers Producing and Preliminarily Treating Rubber Latex
- 3854  Housekeeping Worker - Case Study

15:15 to 16:45  
**Abstract Driven Session** (Platform Presentations)
*Chair – James Taylor (United States of America)*

**Oral Abstract Presentations:**
(10 min presentations with 2-5 minutes for questions)
- 3696  Skin and Mucous Membrane Complaints Related to Indoor Climate Problems
- 3822  Exposure to Wet-Work in Australian Workplaces
- 3826  Recognizing Risk Factors for Persistent Post-Occupational Dermatitis
- 3858  Estimating Occupational Exposure to Skin Carcinogens in Canada
- 3863  Inventory of the Chemicals and the Exposure of the Workers Skin to These at Two Leather Factories In Indonesia
- 3897  Hand Eczema in Danish Hairdressers

17:30 to 19:00  
**Welcome Reception**
Royal Conservatory of Music  
273 Bloor Street West, Toronto, ON

MONDAY, JUNE 6th 2011

**Plenary Session 2: From the Outside In: Penetration, Uptake and Metabolism of Skin Exposures and Their Modifying Factors**

The goal of the keynote(s) for this session will be to summarize the state of knowledge (“best practice”) on how chemicals penetrate the dermal barrier, how chemicals are metabolized, how these mechanisms result in disease and the factors that modify these processes. Future expectations/challenges will be presented.

*Chair: TBA – Fred Frasch USA - TBC*

08:30 to 09:00  
**Keynote 3**  
Ian Kimber (United Kingdom)

**Mechanisms of Chemical Effect in the Skin**
20 minutes presentation, 10 minutes interactive discussion

09:00 to 09:30  
**Keynote 4**  
Simon Wilkinson (United Kingdom)

**Permeation of Chemicals Through the Skin**
20 minutes presentation, 10 minutes interactive discussion

09:30 to 10:00  
**Keynote 5**  
Sanja Kezic (The Netherlands)

**Factors Modifying the Uptake of Chemicals Through the Skin**
20 minutes presentation, 10 minutes interactive discussion
**MONDAY, JUNE 6th 2011**

**10:00 to 10:45**  
*Morning Break/Poster Viewing*

**Poster Abstract Presentations:**

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>3329</td>
<td>Evolution of Concentrated (50%) Sodium Hydroxide Burns on Human Skin Explants Ex Vivo</td>
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<tr>
<td>3802</td>
<td>A Novel Skin Washing ‘By Difference’ Method for Predicting Dermal Absorption</td>
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<tr>
<td>3813</td>
<td>Dermal Exposure and Skin Condition of Workers Co-Exposed to Cobalt and Nickel at a South African Base Metal Refinery</td>
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<td>3845</td>
<td>Integration of Bio-Monitoring and Dermal Exposure Assessment</td>
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<td>3852</td>
<td>Dermal Absorption of Benzene in Occupational Settings: Estimating Flux and Applications for Risk Assessment</td>
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<tr>
<td>3289</td>
<td>Hazard Identification and Risk Assessment in a Manufacturing Industry in the Philippines: A Continuing Study</td>
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<td>3722</td>
<td>In Vitro Percutaneous Penetration of Polycyclic Aromatic Hydrocarbons from Sunscreen Creams</td>
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<tr>
<td>3742</td>
<td>Episkin Reconstructed Human Skin Model: A Pertinent Screening Tool to Measure Permeability Coefficient</td>
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<td>3744</td>
<td>In-Vitro Dermal Absorption of 1-Bromopropane</td>
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<td>3764</td>
<td>Skin Barrier Function Alteration Induced by Noise Stress and Organic Solvent Among Aircraft Maintenance Workers</td>
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<td>3806</td>
<td>Determining Dermal Absorption of Nanoparticles Using a Novel In Vitro Flexing Skin Model (Cutaflextm)</td>
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<td>3815</td>
<td>The Skin Penetration of Organophosphorous Compounds is Highly Dependent on Agent Concentration and Hydrophilic Properties</td>
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<td>3817</td>
<td>A Biomarker for Skin Exposure to Isocyanate</td>
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<td>3820</td>
<td>Surface to Skin Transferof Isocyanates in Automotive Refinishing.</td>
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<tr>
<td>3823</td>
<td>Investigation of Chemical Uptake at Low Loads on Skin</td>
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<td>3825</td>
<td>Assessment of Indoor Dermal Exposure to Svocs</td>
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<tr>
<td>3840</td>
<td>The Role of Donor Surface Distribution in Finite Dose Skin Absorption Experiments</td>
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<td>3842</td>
<td>In Vitro Percutaneous Absorption of Pesticides Through Rat and Human Skin for Predictive Transdermal Models.</td>
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<td>3846</td>
<td>Characterizing Dermal Exposures to Chemicals Within Emergency and Workplace Settings</td>
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<td>3856</td>
<td>Exposure-Response Relationships for Skin Symptoms Among Bakery and Isocyanate-Exposed Workers</td>
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<tr>
<td>3902</td>
<td>Exposure Assessment Tool for Early Diagnosis of Occupational Eczema</td>
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<tr>
<td>3910</td>
<td>Tape Stripping For Aliphatic Polyisocyanates: A Laboratory Investigation Examines Recovery</td>
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MONDAY, JUNE 6th 2011

10:45 to 12:00  **Abstract Driven Parallel Sessions**

**Parallel Session #1  Exposure Models**
Chair – Frank Jungbauer, (The Netherlands) - TBC
(10 min presentations with 2-5 minutes for questions)

3704  Uperc: A Web-Based Tool to Aid the Identification of Chemicals Potentially Posing a Health Risk Through Percutaneous Exposure
3713  A New Database of Dermal Contact Transfer Factors
3739  How To Use DPK Parameters to Improve Cutaneous Absorption Knowledge for Cosmetic Ingredients?
3768  IH-Skinperm An Advanced Skin Absorption Model
3818  Mathematical Modeling of Transdermal Penetration After Finite Dosing

**Parallel Session #2  Exposure Uptake**
Chair – Francesca Larese Filon, (Italy)
(10 min presentations with 2-5 minutes for questions)

3725  Metal Nanoparticles Skin Absorption
3745  Skin Permeability from Different Vehicles: Maximum Steady-State Flux
3810  Factors Affecting Particle Adherence to Bare Skin and Sampling Substrates
3834  Penetration Patterns of Monomeric and Polymeric 16-Hexamethylene Diisocyanate in Human Skin
3857  Single Nucleotide Polymorphisms Associated with Skin Naphthal-Keratin Adduct Levels Among Jet Fuel Exposed Workers

12:00 to 13:00  **Lunch**

**Plenary Session 3  Exposure Assessment: Models, Measurements and Monitoring**

The goal of the keynote(s) for this session will be to summarize the state of knowledge on methods for assessing dermal exposure (questionnaires, measurement, biomonitoring, prediction models). Including, the validation of new approaches and the development of scenario-based modeling techniques.

*Chair: Aleks Stefaniak (United States)*

13:00 to 13:30  **Keynote 6**  
John Cherrie (United Kingdom)

*Dermal Exposure Assessment: Progress & Pitfalls*
20 minutes presentation, 10 minutes interactive discussion

13:30 to 14:00  **Keynote 7**  
Dhimiter Bello (United States of America)

*Models for Predicting Dermal Exposure: Development, Validation and Application*
20 minutes presentation, 10 minutes interactive discussion

14:00 to 14:30  **Keynote 8**  
Adam Wisnewski (United States of America)

*Biomonitoring: Promising Targets for Measurement in Populations and Individuals*
20 minutes presentation, 10 minutes interactive discussion

14:30 to 15:45  **Afternoon Break/Poster Viewing**
MONDAY, JUNE 6th 2011

15:45 to 16:30  Abstract Driven Parallel Sessions

Parallel Session #1  Chair – Greg Day, (United States of America)
Exposure Sampling  (8 min presentations with 2 minutes for questions)

3816 Dermal and Respiratory Exposure to Cobalt Salts in a Packaging Area at a Base Metal Refinery
3821 Evaluation of a Newly Developed Wet-Work Sampler for Quantification of Wet-Work Exposure in Nurses: Final Results
3833 Measurement of Dermal Exposure to Diisocyanates and Exposure Control Measures in Different Work Environments Within the Swedish Motor Trade
3909 Dermal Absorption of Products of Combustion Encountered During Firefighter Training Exercises

Parallel Session #2  Chair – Martin Roff, (United Kingdom), TBC
Methods for Exposure Assessment  (8 min presentations with 2 minutes for questions)

3811 Use Of Artificial Sweat as an Extraction Solvent for Quantification of Biologically Meaningful Exposure to Chromium
3824 Simulation of Removal of Chemicals from Skin by Washing
3830 A Review and Evaluation of Dermal Exposure Data in the Context of Dermal Exposure Modeling

18:00 to 21:00  Conference Dinner
Great Hall, Hart House
University of Toronto Campus
Nethercott Lecture: Dr. Howard Maibach

TUESDAY, JUNE 7th 2011

Plenary Session 4  Prevention of Occupational Skin Disease – Workplace Focus
The goal of this session will be to summarize the current state of knowledge (best practice) for the prevention of work-related skin disease at the workplace, governmental and societal levels. Future expectations/challenges will be addressed.
Chair: Dhimiter Bello (Unites States of America)

08:30 to 08:45  Plenary Welcome
08:45 to 09:30  Keynote 9
Prevention – Workplace Focus
(40 minute presentation, 5 minutes interactive discussion)
Bob Rajan  (United Kingdom)

09:30 to 10:00  Keynote 10
Evaluating Proposed Interventions
(25 minute presentation, 5 minutes interactive discussion)
Linn Holness  (Canada)

10:00 to 10:30  Facilitated Interactive Discussion
TUESDAY, JUNE 7th 2011

10:30 to 11:00  Morning Break & Poster Viewing

Poster Abstract Presentations:

3838  Workplace Characteristics and Prevention Activities of Workers Being Assessed for Possible Work-Related Skin Disease

3848  A Decade of Progress for Research But What About the Shop Floor Experience - An Ontario Snapshot

3724  Prevention of Skin Exposure to Metal Working Fluid in Tool Manufacturing Plant: An Intervention Approach

3726  Standard Limits for Surface Contamination an Important Tool to Reduce Workers Exposure: The Example of Beryllium

3801  Two Recurrent Cases of Occupational Contact Dermatitis in a Cook and a Vegetable Handler after Changing Their Jobs in Japan - How to Improve Pre-Employment Counseling?

3814  Permeation of a Hair Dye Compound Through Nitrile Rubber Gloves Used by Hairdressers and the Influence of Hydrogen Peroxide

3839  Screening for Hand Dermatitis in Health Care Workers

3853  Assessing Effectiveness of Dermal Exposure Control Work Practices in the Castable Polyurethane Industry

11:00 to 12:00  Abstract Driven Parallel Sessions

Parallel Session #1  Prevention in the Person
Chair – Irena Kudla (Canada)
(8 min presentations with 2 minutes for questions)

3353  Diphoterine(R) for Sodium Hydroxide (Naoh) Skin Splash Decontamination: In Vitro and Experimental Animal Studies

3804  Predictors of Dermal Exposures to Polycyclic Aromatic Compounds Among Asphalt Paving Workers

3850  The Distance Between Theory and Practice - Glove Use and Education in the Workplace

3855  Skin and Respiratory Exposure Prevention in a Clinical Population with Suspected Work-Related Disease

Parallel Session #2  Prevention in the Population
Chair: Swen John (Germany)
(8 min presentations with 2 minutes for questions)

3827  Strategies for Assessing and Managing Dermal Exposures Under the EU Reach Regulation

3828  Teledermatology in Occupational Skin Health Surveillance - Diagnostic Accuracy and Reliability

3841  Evaluation of the Awareness of Latex Allergy And the Appropriate Use of Gloves Among Healthcare Workers

3844  Raising Awareness for Dermatitis in the Service Sector: Slow Steps to Prevention

3849  Reduction of Occupational Skin Exposure to Hazards: First Voluntary Agreement by European Social Partners in a High Risk Profession (Hairdressing)
TUESDAY, JUNE 7th 2011

12:00 to 13:00  Lunch & Poster Viewing

Plenary Session 5  Prevention of Occupational & Environmental Skin Disease: Regulatory & Societal Focus

The goal of this session will be to summarize the current state of knowledge for the prevention of occupational and environmental skin disease at the workplace, governmental and societal levels. Various jurisdictions will present their perspectives. Future expectations/challenges will be addressed.

Chair: Irena Kudla (Canada)

13:00 to 13:15  The North American Perspective  Scott Dotson (United States of America)

10 minute presentation, 5 minutes interactive discussion

13:15 to 13:30  The European Union Perspective  Swen John (Germany)

10 minute presentation, 5 minutes interactive discussion

13:30 to 13:45  The Australian Perspective  Rosemary Nixon (Australia)

10 minute presentation, 5 minutes interactive discussion

13:45 to 14:15  International Perspectives

Japan, India, Singapore, South Africa, Vietnam (final decisions on review of registrations)

14:15 to 14:45  Facilitated Interactive Discussion

14:45 to 15:15  Afternoon Break & Poster Viewing

Plenary Session 6  General Discussion: Fulfilling the Decade of Promise

15:15 to 16:15  Facilitated interactive discussion with participation of keynote speakers and the Co-Chairs of previous OEESC meetings.

16:15 to 17:00  OEESC 2013 Planning Meeting

WEDNESDAY, JUNE 8th 2011

08:30 to 10:30  Workshops

Cancer  Chairs: Rosemary Nixon, Paul Demers
Discussion of the role of occupational and environmental skin exposure in the etiology of cancer. Skin as a “sink” for carcinogens in the workplace

Lung/Skin Interactions  Chairs: Victoria Arrandale, John Cherrie, Ian Kimber
Discussion of how skin exposure may play a role in the development of asthma, including the host and environmental factors that modify these processes.

Risk assessment/Management  Chair: Chris Packham Interactive workshop with “situational” examples where participants will be asked to assess risk of damage to health due to actual or potential skin exposure or decide how to manage the exposure with emphasis on technical/engineering/process controls rather than PPE.

10:30 to 11:00  Break for Coffee

11:00 to 11:15  Summary of Cancer Workshop
WEDNESDAY, JUNE 8th 2011

11:15 to 11:30  Summary of Lung/Skin Interactions Workshop
11:30 to 11:45  Summary of Risk Assessment/Management Workshop
11:45 to 12:00  Closing Remarks
12:00 to 13:00  Light Lunch
Continuing Education Credits

- CRBOH approved for 3.5 RM points (2011-73)
- ABHI approved for 3.5 CM points (11-843)

The Office of Continuing Education and Professional Development (CEPD), Faculty of Medicine, University of Toronto is fully accredited by the Committee on Accreditation of Continuing Medical Education (CACME), a subcommittee of the Committee on Accreditation of Canadian Medical Schools (CACMS). This standard allows the Office of CEPD to assign credits for educational activities based on the criteria established by The College of Family Physicians of Canada, the Royal College of Physicians and Surgeons of Canada, the American Medical Association, and the European Accreditation Council for Continuing Medical Education (EACCME).

Location

OEESC 2011 will take place at Victoria University in the University of Toronto, 73 Queen’s Park Crescent, Toronto, Ontario, M5S 1K7. Victoria University is a vibrant and welcoming community of students, faculty, staff and alumni in the University of Toronto. Established in 1836 in Cobourg Ontario, Victoria University comprises Victoria College, a non-denominational arts and science college, and Emmanuel College a United Church theological college. Vic’s ivy covered campus is a peaceful and secluded space in the heart of a bustling and culturally rich city.

Registration

Full Conference Registration (including pre-conference clinical workshop on Sunday morning, welcome reception, lunch (Monday through Wednesday) and conference dinner): $475.00 CAD

Daily registration $200.00 CAD per day

Click HERE for online registration or visit www.oeesc.org.

Cancellation Policy

Refunds will not be issued for cancellations received after May 26, 2011. A processing fee of $75 CAD will be retained on all cancellations.

Requests for refunds must be made in writing. Registrations are not transferable.

The University of Toronto reserves the right to cancel events. Registrants will be notified at the earliest possible date in the event of a cancellation. Registration fees for events cancelled by the University of Toronto will be refunded; however the University nor the Conference will be liable for any loss, damages or other expenses that such cancellations may cause.

For complete conference details, registration and accommodation information please visit the conference website at www.oeesc.org.

Accommodation

Limited room blocks will be available at surrounding hotels.

InterContinental Hotel Toronto Yorkville
220 Bloor Street West, Toronto ON M5S 1T8

Rates:
Category Regular
Two Queen Beds $169 per night + applicable taxes
One King Bed $169 per night + applicable taxes

Room rates will be valid through to Wednesday, May 4, 2011.
Reservations may be made by contacting the hotel directly and quoting group ID: OEESC (reservation code HJ8)
Contact: Arlene Abella, Reservation Supervisor (Monday to Friday between 0830 – 1730 EST)
T. 1-416-324-5890
E. arlene.abella@ihg.com
W. www.toronto.intercontinental.com

Holiday Inn Toronto Midtown
280 Bloor Street West, Toronto ON M5S 1V8

Rates:
Category Regular
Two Double Beds $129.99 per night + applicable taxes
One Queen Bed $129.99 per night + applicable taxes

Room rates will be valid through to Wednesday, May 4, 2011.
Reservations may be made by completing the Holiday Inn Reservation Form
Group ID: OEE
Contact: Hotel Reservation Office
T. 1-416-968-0010
F. 1-416-968-7765
E. cn312res@whg.com
W. www.holiday-inn.com/torontomidtown

Victoria University Residences
140 Charles Street, Toronto ON M5S 1K9

Rates:
Category Regular Student*
Single Room $59.50 per night + 13% HST $49.50 per night + 13% HST
Double Room $80.50 per night + 13% HST $70.50 per night + 13% HST

*Students will be required to present their student card/identification.
Breakfast is included and served in either the Burwash Dining Hall or Wymilwood Cafe.

Reservations may be made by completing the Victoria University Individual Reservation Form
Quote Group ID: OEESC Conference 2011
Residence Desk – 24 Hour Reception
T. 1-416-585-4524
F. 1-416-585-4530
E. accom.victoria@utoronto.ca

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Office of Continuing Education and Professional Development
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University of Toronto
500 University Avenue, Suite 650
Toronto, Ontario M5G 1V7 Canada
Tel: 416.978.2719 / 1.888.512.8173
Fax: 416.946.7028
Email: info-PHS1105@cepd.utoronto.ca
Website: www.cepd.utoronto.ca