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 OEESCOs 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 (i.e., knowledge exchange) in a form the practitioner can readily implement.
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:**

3329  Evolution of Concentrated (50%) Sodium Hydroxide Burns on Human Skin Explants Ex Vivo

3802  A Novel Skin Washing ‘By Difference’ Method for Predicting Dermal Absorption

3813  Dermal Exposure and Skin Condition of Workers Co-Exposed to Cobalt and Nickel at a South African Base Metal Refinery

3845  Integration of Bio-Monitoring and Dermal Exposure Assessment

3852  Dermal Absorption of Benzene in Occupational Settings: Estimating Flux and Applications for Risk Assessment

3289  Hazard Identification and Risk Assessment in a Manufacturing Industry in the Philippines: A Continuing Study

3722  In Vitro Percutaneous Penetration of Polycyclic Aromatic Hydrocarbons from Sunscreen Creams

3742  Episkin Reconstructed Human Skin Model: A Pertinent Screening Tool to Measure Permeability Coefficient

3744  In-Vitro Dermal Absorption of 1-Bromopropane

3764  Skin Barrier Function Alteration Induced by Noise Stress and Organic Solvent Among Aircraft Maintenance Workers

3806  Determining Dermal Absorption of Nanoparticles Using a Novel In Vitro Flexing Skin Model (Cutaflextm)

3815  The Skin Penetration of Organophosphorous Compounds is Highly Dependent on Agent Concentration and Hydrophilic Properties

3817  A Biomarker for Skin Exposure to Isocyanate

3820  Surface to Skin Transfer of Isocyanates in Automotive Refinishing.

3823  Investigation of Chemical Uptake at Low Loads on Skin

3825  Assessment of Indoor Dermal Exposure to Svocs

3840  The Role of Donor Surface Distribution in Finite Dose Skin Absorption Experiments

3842  In Vitro Percutaneous Absorption of Pesticides Through Rat and Human Skin for Predictive Transdermal Models.

3846  Characterizing Dermal Exposures to Chemicals Within Emergency and Workplace Settings

3856  Exposure-Response Relationships for Skin Symptoms Among Bakery and Isocyanate-Exposed Workers

3902  Exposure Assessment Tool for Early Diagnosis of Occupational Eczema

3910  Tape Stripping For Aliphatic Polyisocyanates: A Laboratory Investigation Examines Recovery
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 Upercut: 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 Naphthyl-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**
**Dermal Exposure Assessment: Progress & Pitfalls**
20 minutes presentation, 10 minutes interactive discussion

John Cherrie (United Kingdom)

13:30 to 14:00 **Keynote 7**
**Models for Predicting Dermal Exposure: Development, Validation and Application**
20 minutes presentation, 10 minutes interactive discussion

Dhimiter Bello (United States of America)

14:00 to 14:30 **Keynote 8**
**Biomonitoring: Promising Targets for Measurement in Populations and Individuals**
20 minutes presentation, 10 minutes interactive discussion

Adam Wisnewski (United States of America)

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  Exposure Sampling
Chair – Greg Day, (United States of America)
(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  Methods for Exposure Assessment
Chair – Martin Roff, (United Kingdom), TBC
(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 (United States of America)

08:30 to 08:45  Plenary Welcome

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

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

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)
- ABIH approved for 3.5 CM points (11-843)

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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.
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