

Day 1 – January 14, 2019		1:00pm-7:00pm
1:00	Shuttle from the Marriott to IIVS	
1:15	Arrive at IIVS	
Gettysburg Room – Introduction to <i>In Vitro</i> Testing		
1:20-1:30	Orientation, Introduction, and Goals <i>Brent Gilbert, IIVS</i>	
1:30-2:15	Overview of In Vitro Testing Platforms and Future Directions <i>Hans Raabe, IIVS</i>	
2:15-2:45	GLPs for <i>In Vitro</i> Studies <i>Amanda Ulrey, IIVS</i>	
2:45-3:00	Toward Achieving Harmonization in Measurement Through an Inter-laboratory Study <i>Elijah J. Petersen, NIST</i>	
3:00-3:15	Break	
3:15-3:45	Human Tissue Models for Better Therapies: Organ-on-a Chip Technology <i>Kristin Bircsak, Mimetas</i>	
Gettysburg Room – Novel Technologies		
4:00-4:30	Pragmatic Use of 3D Lung Models to Evaluate Exposure-induced Adverse Effects that May Contribute to Pulmonary Disease <i>Pooja Desai and Devin Sheehan, IIVS</i>	
Respiratory Laboratory		
4:35-5:05	<i>Respiratory Lab Demonstration</i> <i>Pooja Desai and Devin Sheehan, IIVS</i>	
Main Laboratory		
5:15-5:30	Laboratory Tour and Orientation <i>Victoria Diersen, IIVS</i>	
5:30-6:30	Happy Hour Reception hosted by IIVS – in the Atrium	
6:30	Shuttle to Marriott	

Day 2 – January 15, 2019		8:00am-4:30pm
8:00	Shuttle from Marriott to IIVS	
8:15	Arrive at IIVS	
Gettysburg Room – Skin Sensitization and Cell-Based Assays		
8:20-9:05	In Vitro Assays to Detect Live & Dead Cells: New Methods to Detect Cell Stress Events Leading to Toxicity <i>Terry Riss, Promega</i>	
9:05-9:35	Skin Sensitization: Overview of Assays-(KeratinoSens) and Regulatory Status <i>Tinashe Ruwona, IIVS</i>	
9:35-10:00	Skin Sensitization – Direct Peptide Reactivity Assay and Human Cell Line Activation Test <i>Megan Thai, IIVS</i>	
10:00-10:15	Questions and Break	
Gettysburg Room – Introduction to Phototoxicity Testing		
10:15-10:45	Neutral Red Uptake Phototoxicity Assay in Balb/c 3T3 Mouse Fibroblasts <i>Allison Hilberer, IIVS</i>	
10:45-11:15	Question and Answer & 3T3 Phototoxicity Video	
Laboratory		
11:15-11:30	Pipettor Review <i>Kayla Cantrell, IIVS</i>	
11:30-12:30	KeratinoSens Skin Sensitization Assay <ul style="list-style-type: none"> • Seeding 3T3 cells in 96-well plates • Dilution of test articles & Dosing of 96-well plate cultures <i>Kayla Campasino and Callista Brown, IIVS</i>	
12:30-1:15	Catered Lunch	
1:15-3:15	KeratinoSens Skin Sensitization Assay <ul style="list-style-type: none"> • Rinsing of 96-well plates • Addition of One-glo • Reading on Luminometer (demonstration) h-CLAT Demonstration <ul style="list-style-type: none"> • <i>Callista Brown, IIVS</i> DPRA Demonstration <ul style="list-style-type: none"> • <i>Eric Toombs, IIVS</i> 	
Gettysburg Room – Skin Sensitization and Cell-Based Assays (continued)		
3:15-3:45	Integrated Testing Strategies and Future Directions for Assessing the Skin Sensitization Potential of Chemicals <i>Tinashe Ruwona, IIVS</i>	
3:45-4:30	Sensitization Assays: Case Studies <i>Tinashe Ruwona and Megan Thai, IIVS</i>	
4:30	Shuttle to Hotel Open evening – Enjoy shopping and dining at your convenience	

Day 3 – January 16, 2019		8:00-8:00pm
8:00	Shuttle from Marriott to IIVS	
8:15	Arrive at IIVS	
Gettysburg Room – Introduction to Dermal Test Methods		
8:30-9:00	Validated <i>In Vitro</i> Assays Used for Dermal Safety Assessment <i>Gertrude-Emilia Costin, IIVS</i>	
9:00-9:30	Reconstructed Skin Micronucleus Assay (RSMN) <i>Greg Mun, IIVS</i>	
9:30-10:00	Non-regulatory <i>In Vitro</i> Assays Used for Dermal Safety and Efficacy Testing <i>Gertrude-Emilia Costin, IIVS</i>	
10:00-10:20	Question & Answers	
10:20-10:45	Break	
Laboratory		
10:45-12:00	Skin Irritation Test Protocol using MatTek EpiDerm™ Reconstructed Human Epidermis <ul style="list-style-type: none"> • Placing 3-D tissue models into culture & Dosing of tissues <i>Elizabeth Willier and Kristen Burley, IIVS</i>	
12:00-1:00	Catered Lunch	
1:00-2:00	Skin Irritation Test Protocol using MatTek EpiDerm™ Reconstructed Human Epidermis <ul style="list-style-type: none"> • Rinsing and inspection of treated tissues • Transfer of tissues for 42-hour post-treatment expression incubation • MTT reduction test and Freeze-Killed Tissue Controls • Addition of MTT 	
2:00-2:30	Corrositex™ Demonstration: <i>Nicholas Castro, IIVS</i> Corrosivity in 3-D construct demonstration: <i>Kayla Campasino, IIVS</i>	
2:30-3:30	Skin Irritation Test Protocol using MatTek EpiDerm™ Reconstructed Human Epidermis <ul style="list-style-type: none"> • Transfer tissues to isopropanol to begin MTT extraction & Read plates 	
3:30-3:45	Break	
Gettysburg Room – Case Study		
3:45-4:30	3D RhE Case Studies: Skin Irritation & Corrosion <i>Nathan Wilt, IIVS</i>	
4:30-4:45	Shuttle to Marriott	
5:30-7:30	Dinner at Copper Canyon Restaurant (Washingtonian Center)	

Day 4 – January 17, 2019		8:00am-3:30pm
8:00	Shuttle from Marriott to IIVS	
8:15	Arrive at IIVS	
Gettysburg Room - Introduction to <i>In Vitro</i> Ocular Irritation Testing		
8:20-9:05	Ocular Irritation Testing Methods: BCOP Assay <i>Allison Hilberer, IIVS</i>	
9:05-9:35	EpiOcular™ Assays: Protocols, Performance & Experience <i>Nathan Wilt, IIVS</i>	
9:35-9:40	Questions & Answers & BCOP video	
9:40-9:55	Break	
Laboratory		
10:00-11:00	Ocular Alternatives Laboratory (BCOP) <ul style="list-style-type: none"> Isolation & mounting of corneas and filling of chambers Pre-incubation of corneas exposure of corneas to test agents <i>Georgia Price and Nicholas Castro, IIVS</i>	
11:00-12:00	Catered Lunch	
12:00-1:00	Ocular Alternatives Laboratory (BCOP) <ul style="list-style-type: none"> Exposure of corneas to test agents Rinsing off test material from corneas Post Exposure 	
1:00-1:15	Break	
1:15-2:00	Ocular Alternatives Laboratory (BCOP) <ul style="list-style-type: none"> Measurements of opacity and fluorescein penetration Reading of plates and data interpretation 	
Gettysburg Room – Case Study & Round Table Discussion		
2:00-2:30	BCOP Data Case Studies <i>Nathan Wilt, IIVS</i>	
2:30-3:00	Integrated Approaches to Testing and Assessment (IATA) <i>Hans Raabe, IIVS</i>	
3:00-3:30	Course Summary – Putting it All Together: How to Interpret <i>In Vitro</i> results, Product Safety Labelling/Claims Support. <i>John Harbell, JHarbell Consulting LLC</i>	
3:00-3:30	Course summary, open discussion, completion of the course evaluation, presentation of the certificates and close of workshop	

Thank you to:
MatTek Corporation (Ashland, MA, USA)
SkinEthic (Lyon, France)
CellSystems (Troisdorf, Germany)

*For generously providing Human
Reconstructed Epidermal Tissues*

&

In Vitro International, Inc. (Irvine, CA, USA)
*For generously providing
the Corrositex Kits*

For Your Reference:

Hotel

Gaithersburg Marriott
9751 Washingtonian Blvd
Gaithersburg, MD 20878
301-590-0044

Dinner (Wednesday, January 16 / 5:30 PM)

Copper Canyon Restaurant (Other end of Pond from Hotel – (400m walk))

Shuttle Service

On the Town Limousines: +1 301 695 5466

Emergency Contact

Brent Gilbert: +1 813 598 5570