

# ISBS World Congress Program Guide



**June 4-6, 2024**

New Orleans, LA USA



## Tuesday, June 4th

All Day	Symposium attendee arrival / Set up general session and exhibitors
12:00 - 17:00	Registration desk open
13:00 - 17:00	½ Day Workshop
18:00 - 20:00	Welcome Reception & Mixer

Participants will receive an ISBS training certificate upon completion of the workshop. The agenda will be as follows:

- 13:00-13:30 pm – introduction to the panel and topics covered in the workshop including photography, colorimetry, moisture, barrier function/evaporimetry, bio-mechanical properties, and study design.
- 13:30-16:00 pm – hands on experience opportunities with stations featuring each type of topics discussed as well as access to our vendors who will provide opportunities to try their newest equipment. Opportunities will be provided to separate into groups focusing on specific areas of interest, as well as advanced topics for the more seasoned scientists in attendance.
- 16:00-17:00 pm – closing discussion with our panel of experts to discuss any questions you may have and for them to share their individual expertise.



## Wednesday June 5th

8:00 - 9:00	<b>Breakfast</b>	<b>Exhibit / Poster Hall</b>	
9:00 - 9:05	<b>Opening General Session</b>	Welcome and Opening Remarks	Hawkins
9:05 - 11:30	<b>Session 1</b>	<b>Mechanical Methods and Modeling</b>	Session Chairs
9:05 - 9:50	<b>Keynote #1</b>	Reviewing the Complexity of Skin Biomechanics and the Mixed Impacts of Population Diversity and Environmental Factors	Querleux
9:50 - 10:10	<b>O-01</b>	Hyperelastic Material Properties of Pediatric Skin Tissue Using Computational Models of Cutometer-Based Experiments	Zakrajsek
10:10 - 10:30	<b>O-02</b>	A Novel Manual Device for Assessing Skin Firmness, Adhesion and Elasticity Across Facial Sublayers	Zahouani
10:30 - 10:50	<b>O-03</b>	Nanoscale morphometric and mechanical properties of dermal collagen in health and disease	Bozec
10:50 - 11:10	<b>O-04</b>	Exploring Age-Related Dynamic Responses of Skin and Subcutaneous Fascia to Mechanical Stimuli: Implications for Wave Stimulation Technology	Bergheau
11:10 - 11:30	<b>O-05</b>	Evaluation of a Haptic Sensor in Assessing Facial Skin Surface Conditions	Su
11:30 - 12:30	<b>Coffee Break &amp; Poster Session</b>	<b>Exhibits / Poster Hall</b> Odd Numbers: 11:30 - 12:00 Even Numbers: 12:00 - 12:30	
12:30 - 13:30	<b>Lunch</b>		
13:30 - 17:00	<b>Session 2</b>	<b>Skin Evaluation Across Populations in Health and Disease</b>	Session Chairs
13:30 - 14:15	<b>Keynote #2</b>	Keynote Speaker: Dermatology populations and measurement needs for clinical research in a warm and humid climate: Perspectives from New Orleans	Jackson
14:15 - 14:35	<b>O-06</b>	Skin care promotes cutaneous microbiome recovery and protection in an acute stratum corneum stress model in healthy volunteers and patients with inflammatory bowel diseases	Fluhr
14:35 - 14:50	<b>O-07</b>	Skin hydration, skin sensitivity and aging insights from mining an anonymized database of 12,000 volunteers	Stamatias
14:50 - 15:10	<b>O-08</b>	Enhancing Clinical Dermoscopic Diagnostics: Leveraging Compact Models with Knowledge Distillation for Multiple Skin Disease Classification	Wang
15:10 - 15:40	<b>Coffee Break</b>	<b>Exhibit / Poster Hall</b>	
15:40 - 16:00	<b>O-09</b>	Exploring the Effects of Massage and Advanced Skincare Solutions on Skin's Mechanical Attributes and Tension	Bergheau
16:00 - 16:20	<b>O-10</b>	Objective skin color assessments with the Colorimeter DSM-4	Grove
16:20 - 16:40	<b>O-11</b>	Integrating Multi-Modal Information for Advanced Dermatological Diagnostics: A Content-Based Image Retrieval Framework	Wang
16:40 - 17:00	<b>O-12</b>	Advancements in Transepidermal Water Loss Measurement: Comparing Tewameter-Mobile and TMHex Probe Efficacy	Fluhr
17:00 - 18:00	<b>General Assembly (ISBS Members)</b>	<b>ISBS Business Meeting</b>	
	<b>Free time - on own for dinner</b>		



## Thursday June 6th

8:00 - 9:00	Breakfast	Exhibit / Poster Hall	
9:00 - 9:05	Opening General Session: Day 2	Announcements	Luckey
9:05 - 12:10	Session 3	Environmental Stressors	Session Chairs
9:05 - 9:50	Keynote #3	Keynote Speaker: Air Pollution, Particulate Matter, and the Skin	Darlenki
9:50 - 10:10	O-13	A Practical Clinical Device for Evaluating Changes to the Skins Sebum from Ozone	Houser
10:10 - 10:30	O-14	Graphene-Based Patch Biosensor: Investigating Galvanic Skin Response for Skin Property Assessment	Jeridi
10:30 - 10:50	O-15	Impact of Psychological Stress on Skin	Muizzuddin
10:50 - 11:10	Coffee Break	Exhibit / Poster Hall	
11:10 - 11:30	O-16	Investigating the Potential of a Miniprotein for Facial Skin Rejuvenation Through Instrumental and Imaging Techniques	Chajra
11:30 - 11:50	O-17	Unravelling melanin photoprotection: Significance of melanin distribution in the epidermis against UV-induced DNA damage	Diaz
11:50 - 12:10	O-18	Climate Change and Sunscreen Toxicity: The Penetration of Organic UV Filters into Human Skin Increases with High External Temperatures	Gourion-Arsiquaud
12:10 - 13:10	Lunch		
13:10 - 17:00	Session 3	Imaging and Measurement of the Skin Barrier in Health and Disease	Session Chairs
13:10 - 14:00	Keynote #4	Guest Panel: How we got here and what does the future hold: Musings from Lifelong Biophysics Geeks	Grove and Wickett
14:10 - 14:15	Recognition and Awards	Young Investigator Award	Houser
14:15 - 14:35	O-19	Clinical applications of Line-field Confocal Optical Coherence Tomography (LC-OCT) in skin research	Stamatas
14:35 - 14:50	O-20	Femtosecond Laser Multiphoton Tomograph for Skin Imaging Powered by Sunlight	Koenig
14:50 - 15:10	O-21	Imaging Cosmetic Microplastics in Human Skin In Vivo	Anilkumar
15:10 - 15:40	Coffee Break	Exhibit / Poster Hall	
15:40 - 16:00	O-22	Epidermal Immunity and the Tiny Baby Skin Barrier	Visscher
16:00 - 16:20	O-23	Revisiting the "Excited Skin Syndrome": Gradient Injury Response in an Abdominal Skin Stripping Model	Hakala
16:20 - 16:40	O-24	The Impact of External Factors on Peptide Penetration Inside Human Skin Samples Visualized by Fluorescence Microscopy	Turner
16:40 - 17:00	Closing Remarks	Best Poster Award Final Announcements for Gala & Departures	Hawkins and Luckey
19:00	Gala Dinner	Creole Queen - Second Line Walk to Dinner and Cruise New Orleans Style!	Meet in Front Lobby
	Closing of the Conference		



Poster#	Title	Presenting Author
P-01	Safety Substantiation under MoCRA	Misock
P-02	An evaluation of the biochemical components of the foot skin using in-vivo Confocal Raman Spectroscopy	Andrews
P-03	Changes in dermal matrix structures after vascular laser treatment in rosacea patients	Shin
P-04	Ultrasound Analysis of Age-Related Structural Changes at the Boundary between the Dermis and Subcutaneous Fat Layer	Mizukoshi
P-05	The Influence of Facial Masks on Skin Physiology and Microbiome Composition: A Comparative Study	Nikolaeva
P-06	Mapping of the Biophysical Properties of Pregnant Women Abdomen Skin During Pregnancy	Boyer
P-07	Assessment of Impact of Active Ingredient on Skin Microbiota Equilibrium: In Vitro and In Vivo Approaches	Boyer
P-08	Comparative Analysis of Hyaluronic Acid Penetration in Skincare Products: Insights from Confocal Raman Spectroscopy	Paula
P-09	Identification of materials with skin antiage potential from gene expression analysis	Diaz-Rojas
P-10	Use of Cryo-SEM and EDS for sunscreen characterization: An Observation of mineral UV filters in cosmetic emulsions	Bidaye
P-11	The Influence of Lifestyle-Associated Environmental Exposure on Skin Health and Modulation of the Skin Microbiome with Topical Emollient: A Multi-Omics Regulation Network Analysis	Fu
P-12	Assessment of Skin Barrier Function In Middle-Aged Individuals	Kong
P-13	Skin Capacitive Imaging Analysis by Using Epsilon Dermalyser Software	Bahmanyar
P-14	Atlas of Biophysical Properties of Human Fingers for Touch Assessment	Vargiolu

