



The 2023 AOCS Annual Meeting & Expo is coming up, and you won't want to miss the surfactants and detergents program!

Register today

Message from the Chair

Dear Colleague,

We're really looking forward to the [2023 AOCS Annual Meeting & Expo](#) and a full program of exciting presentations. Sonja has designed a program that is best in class. Our program is always cutting-edge, and the interactions built between sessions have always been a hotbed for new collaborations. Stay happy and healthy, and remember that collaboration and success go hand and hand.

I am excited to announce that Dr. George A. Smith has been named a Fellow of the AOCS due to his outstanding record as a scientist and leader in the surfactant sciences and within the AOCS community, particularly the S&D Division. George has worked in the field of surfactants and detergents for over 40 years. George also has over 20 peer-reviewed technical publications, has given several keynote presentations at conferences, and holds over 40 US patents.

George has been an active member of AOCS since 1998, serving as technical program chair, technical session chair, S&D Division Chair, and AOCS Governing Board member. George has not missed an AOCS annual meeting since 1998 and has presented over 35 scientific papers and recruited over 20 new members to AOCS. He served as Associate Editor and then Editor-in-Chief for the *Journal of Surfactants and Detergents* from 2014-2019.

We extend an invitation to [submit your research and review articles to the Journal of Surfactants and Detergents](#). We are interested in mini reviews on a related topic or instructional reviews that provide an overview of the current state-of-the-art for a specific measurement or experimental approach, such as measuring contact angles, assessing ecotoxicity, employing molecular dynamics to better understand surfactant self-assembly, and so on. Please contact Doug Hayes, Editor-in-

Chief, at dhayes1@utk.edu for further information.

Keith Genco
Chair, S&D Division

Surfactants and Detergents Division Officers

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2023 AOCS Annual Meeting & Expo
April 30–May 3

Colorado Convention Center, Denver, Colorado, USA

Network with new and familiar faces and discover the latest surfactants & detergents research

Register today

Surfactants and Detergents Technical Program

Enjoy 95+ hand-selected presentations that feature exciting developments in the surfactants and detergents industry.

Oral Presentation Highlights

Are biosurfactants actually surfactants? Thoughts and opportunities concerning microbial glycolipid amphiphiles

Presenter: Niki Baccile, Sorbonne Universite

Optimization of essential oil solubilization by sophorolipids through high-throughput research

Presenter: Daniel Miller, Dow Chemical Company

Sophorolipid surfactants and their emerging role in consumer and I&I cleaning formulations

Presenter: Demichael Winfield, USDA

Nature-sourced surfactants: Production and application

Presenter: Tiankui Yang, Wilmar (China) Oleo Co., Ltd

New high-value starch based anionic and cationic emulsifiers using amylose inclusion complexes

Presenter: Gordon Selling, USDA/ARS

Poster Presentation Highlights

100% sustainable glycolipid solubilizer for cleansing formulas

Presenter: Regis Marchand, Seppic

Development of ethyl cellulose shell-coated alginate droplets in w/o emulsions by electrospraying

Presenter: Charles Ahenkorah, University of Guelph

Development of new washing technology with alkoxyated cationic polymer under low-concentration surfactant conditions

Presenter: Ryota Takei, Lion Corporation

Interfacial interaction: The fifth element of sinners circle

Presenter: Zhenyu Jason Zhang, University of Birmingham

Redefining hand-dish sustainability and performance – with enzymes

Presenter: Mark Smith, Novozymes North America



Register today

Network with Colleagues

Make the most of your annual meeting experience by attending one of our networking events. Browse a few events of interest below.

Surfactants and Detergents Division Luncheon

Tuesday, May 2 | 1 pm

Supported by American Cleaning Institute and ExxonMobil

Surfactants and Detergents Division Networking Reception

Monday, May 1 | 6 pm

Supported by American Cleaning Institute and ExxonMobil

An informal event to catch up with colleagues and make new connections. Heavy appetizers and refreshments provided, and best yet – the event is complimentary! No advance registration is required.

AOCS Member and Volunteer Appreciation Luncheon

Wednesday, May 3 | 1–2:25 pm

We appreciate you! All meeting attendees are welcome to enjoy complimentary food and fun as we recognize our volunteers. You will also have a chance to win prizes! Learn more about how to volunteer and get inspired by those who make a difference through volunteering with AOCS.



Register now

**Congratulations to the 2023 award winners from the
surfactants and detergents division!**

Congratulations to George A. Smith for winning the 2023 AOCS Fellow Award

The AOCS Fellow Award recognizes achievements in science and/or extraordinary service to the Society.

[Read about George's career achievements and contributions to AOCS.](#)



Congratulations to the winners of the 2023 American Cleaning Institute (ACI) Distinguished Paper Award

Winners: Ronald Marquez, Jacob Zwilling, Franklin Zambrano, Laura Tolosa, Maria E. Marquez, Richard Venditti, Hasan Jameel, Ronalds Gonzalez, for the paper "Nanoparticles and essential oils with antiviral activity on packaging and surfaces: An overview of their selection and application"

[Read the paper.](#)



Broaden your knowledge with the AOCS Continuing Education Program

Fundamentals of Soap Technology: Composition, Manufacturing, and Applications

This course overviews soap history, composition, processing, manufacturing, applications, and projected trends in the soap industry.

The training is on-demand to fit your busy schedule. On-demand access includes access to recordings, slides, and course materials for 30 days.



Get on-demand access

Beyond Triglycerides: Applications for Unique Plant- based Lipids in Personal Care

This course provides an overview of non-triglyceride plant lipids and their uses in personal care products.

On-demand registration includes access to recordings, slides, and course materials for 30 days.



[Get on-demand access](#)

Design of lamellar gel network emulsions for personal care and cosmetics applications

This course provides a detailed overview of the science and technology of these commercially important materials. The course highlights the lamellar gel network (LGN) model developed by our course instructor Ricardo Diez and demonstrates its use to design key aspects of cosmetic and personal care emulsions, from sensorial properties to stability and scale-up, as well as delivery of actives.

On-demand registration includes access to recordings, slides, and course materials for 30 days.



[Get on-demand access](#)

Lipids in Personal Care and Cosmetics

This course is a detailed look into the roles that plant-based lipids play in personal care and cosmetic formulations.

On-demand registration includes access to recordings, slides, and course materials for 30 days.



[Get on-demand access](#)

AOCS membership benefits corner

Each year, enjoy 10 issues of INFORM — the official member magazine of AOCS.

INFORM magazine

Unraveling the science behind surfactant antimicrobial activity

Traditional preservatives are undergoing increased regulatory and consumer scrutiny, driving the search for multi-functional ingredients that can simplify formulations by preserving them against bacterial degradation while continuing to perform their traditional formulary roles. Scientists from Procter & Gamble are combining computer-aided modeling, surfactant phase behavior, and NMR spectroscopy to unravel the mechanisms behind the bactericidal action of surfactants in consumer products.

[Read the article.](#)



Broaden your knowledge with full access to AOCS's four peer-reviewed journals.

Journal of Surfactants and Detergents (JSD)

Forecasting the cloud point of alkoxyated nonionic surfactants

Authors: Jan Nilles; Thomas Myrdek

Prediction of surfactant properties can accelerate product development by narrowing the scope of relevant surfactant molecules to a smaller selection of molecules that can be examined in a timely manner. The cloud point of a nonionic surfactant is an important property relevant to temperature phase stability and maximizing the cleaning potential of a formulation. Researchers at Kao synthesized a wide range of glycol ether surfactants by reacting alcohols with chain lengths ranging from C4-C22 with 2-22 moles of ethylene oxide and/or 0-12 moles of propylene oxide. Cloud points were measured, and regression analysis was used to derive relationships between the cloud points and molecular properties such as chain length and degrees of alkoxylation.



[Read the article.](#)

Study of the efficiency of technical grade nonionic surfactants

Authors: Frederike Cattelaens; Thomas Myrdek

A key parameter in the choice of surfactants to use in cleaning formulations is their efficiency when solubilizing an oil. Predicting the best surfactant molecule to use in a given circumstance can save considerable time by narrowing down the number of candidate molecules to evaluate. Researchers at Kao investigated the structure-function relationships of a range of technical alkyl polyglycol ether surfactants using Kahlweit phase behavior studies of surfactant, oil, and water systems to determine how the molecular structure of the surfactant affects its emulsification efficacy.

[Read the article.](#)

AOCS Webinars are your opportunity to connect with researchers, industry experts, and thought leaders from across the globe. Invest an hour of your day and be inspired. AOCS members have exclusive access to the [AOCS Member Webinar Library](#) to watch past webinars.

AOCS Webinars

Past Webinar of Interest

Surfactant Chemistry Development for Consumer-Packaged Goods Enhanced by Atomic Scale Simulation

Presenter: Jeffrey M. Sanders, PhD, Associate Principal Scientist, Materials Science Division, Schrödinger

In this webinar, Jeffery Sanders discusses the key role that surfactants play in consumer product formulations ranging from candy bars to detergents. He discusses how the use of atomistic physics simulations can provide the link between chemical structure and physical properties giving the user the ability to make predictive calculations of surfactant formula performance. *A priori* predictions of formulation performance can guide lab-based development work speeding development and enhancing innovation.

[Watch the recording.](#)

STAY CONNECTED



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