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Message from the Chair

Dear Colleague,

Warm greetings to all our Phospholipid Division Members.

It was great seeing everyone at the 2022 AOCS Annual Meeting & Expo, in Atlanta, Georgia. Congratulations are due to the AOCS staff who despite all the current challenges were able to put together a very successful in-person meeting as well as online conferences and courses. There were many exciting and innovating presentations, including papers on new processes for phospholipids and lecithin, and in the joint session, with the Analytical Division, on the latest developments in new phospholipid analyses.

We already have an exciting line-up of sessions planned for the [2023 AOCS Annual Meeting & Expo](#) in Denver, Colorado. The [PHO program](#) for the 2023 Annual Meeting will include papers on new sources of phospholipids and new applications of phospholipids and lecithins in pharma and nutraceutical products. Also, as new phospholipid-based pharma products continue to be introduced, we will continue including presentations on the latest developments in phospholipid analyses.

As we get back to normal with conferences and meetings, now, more than ever, we need everyone's involvement to help grow our PHO Division. Please do not hesitate to let us know how we can improve and serve you better. I strongly urge everyone to get more involved with PHO Division activities, from providing leadership in next year's activities, to helping organize sessions and presenting papers.

Also, please join me in welcoming our incoming Phospholipid Division Newsletter Editor Sue Allis, Technical Lead with Thew Arnott, LLC, Illinois, USA.

We look forward to hearing from you!

Ernesto M. Hernandez, Ph.D.
Principal Consultant
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Renew your AOCS membership



Thank you for being a part of the AOCS community! AOCS will continue to be your resource for learning about new technologies and creating collaborations. As an AOCS member, you have access to [member benefits](#) such as AOCS journals, *INFORM* magazine, and discounts to AOCS meetings and educational courses to help you on your professional journey.

[Renew your 2023 membership today.](#)

Submit your research for the 2023 AOCS Annual Meeting & Expo



The [call for papers](#) for the 2023 AOCS Annual Meeting & Expo is officially open!

The phospholipid program organizer, Tao Fei, has created an impactful lineup of sessions that could feature your research. Take a look at a few highlights:

Analysis of Phospholipids and Other Minor Lipids

Challenges and recent developments in analytical methods and technologies for the analysis of phospholipids and other minor lipids. This is a joint session with the Analytical Division.

Session chairs: Hualu Zhou, Postdoctoral Researcher, University of Massachusetts Amherst, USA; Francesca Giuffrida, Team Leader, Nestle Research Center, Switzerland; and Yao Lu, Principal Scientist, DSM Nutritional Products, USA

Isolation, Purification, and Processing of Phospholipids

Novel processing techniques for producing fractions enriched in phospholipids with functional and bioactive properties.

Session chairs: Zinfan Wan, Assistant Professor, University of Wisconsin-Platteville, USA; and Poornima Kalyanram, Lipid Science and Applications Scientist, ADM, USA

Novel Phospholipids — Synthesis, Bioactive Properties, and Applications

Novel phospholipids and their applications such as natural emulsifiers, wetting, and dispersing agents in edible applications. Use of phospholipids in the development of new pharmaceutical and cosmetic formulations and products.

Session chairs: Ernesto Hernandez, Principal Consultant, Advanced Lipid Consultants, USA; and Sandra Einerhand, Managing Director, Einerhand Science & Innovation, Netherlands

Submit your abstract

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Fall picks from the editor

Polymorphic and microstructural behaviors of palm oil/lecithin blends crystallized under shear

Lecithin is a well-known, traditional ingredient that plays an important role in the fat nucleation, polymorphism, and crystal growth in products such as chocolate, margarine or shortening systems. This study demonstrates that soy lecithin and sunflower lecithin can be used interchangeably and that processors can control the structure and properties of these types of products, physically basis shear. The Ukrainian war situation has limited sunflower lecithin availability making this study exploring the effects of shear and soy lecithin or sunflower lecithin on palm oil crystallization, quite timely.

[Read the article.](#)

Utilization of dairy beta stream to produce phospholipid products by salt precipitation and solvent fractionation

Dairy phospholipids have unique functional and nutraceutical properties but, to date, have been underutilized due to limited commercially available quantities. Options to source from a by-product stream are reviewed.

[Read the article.](#)



Nanoparticles and essential oils with antiviral activity on packaging and surfaces: An overview of their selection and application

A great review of existing knowledge on biobased compounds and metal nanoparticles and their potential to be incorporated into biobased packaging. Incorporation methods based on phospholipids encapsulation is one of the promising methods included.

[Read the article.](#)



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[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.

Driving Sustainable Innovation Through Value-added Oleochemicals

Presenter: Tuan Noor Maznee Tuan Ismail, Head Synthesis & Product Development Unit, Malaysian Palm Oil Board

Day/time: October 27, 9:30–11:30 a.m. Malaysia Time, MYT (UTC +8) | October 26, 8:30–10:30 p.m. CDT (Chicago, USA; UTC-05)

This webinar is hosted by the [Asian Section of AOCS](#).

There is more interest than ever in green, natural, biodegradable, and renewable products and the traceability of their supply chains. Renewable raw materials are the basis and driver for an even greater alignment of the industry to green chemistry and sustainability principles. Nature provides a remarkably wide range of renewable raw materials, including palm oil, with varying properties and chemical compositions.

The Malaysian Palm Oil Board (MPOB) is advancing research to explore new and innovative palm-based oleochemical applications. Among value-added oleochemicals developed are polyols and polyurethanes, biolubricants, glycerol derivatives, biosurfactants, specialty chemicals, and many others, which are currently at various stages of research and developmental work. This webinar will explore the efforts carried out by the MPOB to achieve sustainable and environmentally friendly value-added oleochemicals for the advancement of the oleochemical downstream industry.

In addition to the webinar, the Chairperson of the Asian section will deliver a welcome address and a report on 2021 Asian Section activities, including a financial report of the section.

All registrants will have access to the webinar recording. Attendees of the live broadcast will receive a certificate of attendance.

[Register for free.](#)

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Share your thoughts

Have the PHO newsletters been a useful resource to you? Was your interest area missing from the list of resources? If you have any comments or ideas of additional topics to cover in upcoming communications, please reach out to Newsletter Editor [Sue Allis](#).

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