

## Press release

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<http://www.efce.org>

### **Dr. Matthias Kraume & Dr. Alberto Brucato jointly win 2021 Nienow Lifetime Recognition Award in Mixing**

**Dr. Matthias Kraume & Dr. Alberto Brucato** have won the European Federation of Chemical Engineering's 2021 Nienow Lifetime Recognition Award in Mixing due to their outstanding contributions to mixing research and practice.

**Dr. Matthias Kraume's** contribution to mixing research was the first to show the very slow homogenisation of the liquid phase in the presence of solid particles. Matthias also authored deeply insightful studies into liquid-liquid dispersion processes including complex dispersions in the presence of surfactants. More recently he has integrated his mixing expertise with that of biochemical engineers in other institutions, especially for stem cell culture and fermentations of complex rheology. In addition to his decade working in industry, his endorsement for the Lifetime Recognition Award from two industrialists, one from Europe's leading mixer manufacturer and the other from a major international company producing chemicals, highlights the strong impact of his work.



Dr. Wolfgang Last, head of R&D at EKATO and Dr. Joachim Ritter, Dr. Kraume's first PhD student commented, "His contribution to mixing research and practice is truly outstanding throughout his career, which can also be seen by the enormous list of publications. Furthermore, he is extremely recognized by his students and PhD-fellows".

**Dr. Alberto Brucato** has specialised in CFD, particularly for multi-phase flow, from his earliest work on the development of the Inner-Outer Technique and its application to particle distribution. His work included an experimental study to quantify the enhanced drag coefficient found in turbulent stirred tanks, which is now available in standard CFD software packages as the 'Brucato Correction'. Alberto has developed two other experimental methods, one for measuring the proportion of particles suspended and the other for determining  $k_{La}$ . He was the most cited author in 2006-2009 in Chemical Engineering Research and Design, official journal of the European Federation of Chemical Engineering. Recently, Dr. Brucato has been collaborating with biochemical engineers with regards to cell culture.



Professor Harry van den Akker, Bernal Professor of Fluid Mechanics at the University of Limerick commented, "One of his most cited contributions relates to a new model for particle drag coefficients in turbulent fluids which these days is one of the options in commercial CFD software".

The Nienow Lifetime Recognition Award in Mixing sponsored by Alvin and Helen Nienow consists of a cash prize of €1000, a plaque and certificate, plus the opportunity to attend a special event organised by the EFCE Working Party on Mixing, where the award will be presented to Dr. Kraume and Dr. Brucato. The event will take place as an online conference over two half-days on 29<sup>th</sup> June (afternoon) and 30<sup>th</sup> June (morning) 2021.

The Award is generously sponsored by **Alvin and Helen Nienow**.

Ends

### **Related links**

EFCE media centre (<https://www.efce.info/News>)

EFCE Working Party on Mixing ([https://efce.info/WP\\_Mixing.html](https://efce.info/WP_Mixing.html))

### **Notes to media**

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### **About Alvin and Helen Nienow**

Professor Alvin W Nienow, DSc, FIChemE, FREng was a member of the Organizing Committee of the First European Mixing Conference in 1974. Since that time, he has been on the Organizing or Scientific Committee and contributed technically to the Conference series and to mixing research and practice as such. He was also a winner of the 2nd LRA in 2003 when it was sponsored by Ekato. He and his wife Helen count many people in Europe and world-wide working in mixing as their friends. Alvin and Helen are sponsoring this prize starting from the 2021 edition in recognition of the contribution that mixing in general and the European mixing community in particular has made to enhance the quality of their lives.

### **About chemical engineers**

Chemical, biochemical and process engineering is the application of science, maths and economics to the process of turning raw materials into everyday products. Professional chemical engineers design, construct and manage process operations all over the world. Oil and gas, pharmaceuticals, food and drink, synthetic fibres and clean drinking water are just some of the products where chemical engineering plays a central role.

## **About EFCE**

Founded in 1953, The European Federation of Chemical Engineering (EFCE) is a non-profit-making association, whose object is to promote co-operation in Europe between non-profit-making professional scientific and technical societies in 30 countries for the general advancement of chemical engineering and as a means of furthering the development of chemical engineering. See [www.efce.org](http://www.efce.org)