

엠씨아이케이 주식회사 X Thermo Fisher Scientific, Germany  
Sopat GmbH, Germany

# 배터리 및 전자재료 관련 신기술 소개 특별 세미나 및 Workshop

Rheology - In-line Particle Analysis - Continuous Twin Screw Compounding Technology  
- MCIK Center for Applied Rheology & Interfacial Science (McARIS),  
Thermo Fisher Scientific & Sopat GmbH

Speaker :

Dr. Seungrok Kim  
(MCIK)

Mr. Matthias Jähring  
(Thermo Fisher Scientific,  
Germany)

Mr. Raphael Klein  
(Sopat GmbH, Germany)



Rheology &  
NMR Relaxometry



Continuous twin-screw  
compounding of battery  
slurries and powders



photo-optical and image-based  
in-line particle characterization  
& spatial filter velocimetry for  
slurry and powders

일 시 : 2024년 3월 12일 (화) 9:00AM ~ 05:00PM ( 등록 시작: 08:40 AM )  
장 소 : 호텔리베라청담 2층 샤모니홀 ( 7호선 청담역 13번 출구에서 도보로 5분 )  
주 관 : 엠씨아이케이 주식회사  
좌 석 : 선착순 60석  
참 가 비: 일반 100,000 원 / 학생 (대학원 포함) 50,000원 (점심식사 및 음료제공)

## |행사식순|

Program		Speaker
08:40 ~ 09:00	Registration	
09:00 ~ 09:10	Welcome address	Dr. SR Kim
09:10 ~ 10:15	<b>Rotational Rheology in Battery Manufacturing and Research</b> I. Steady shear rheology Rheological terminology, Viscosity, Thixotropy, Yield stress, Sedimentation rate	Dr. SR Kim
10:15 ~ 10:30	Coffee Break	
10:30 ~ 12:00	<b>SOPAT photo-optical and image-based in-line particle characterization of slurries and powders in battery production</b>  *Seminar and workshop for slurry applications a. Sopat Working principle / Theoretical background - 15 min b. Examples / Case studies - 15 min c. Practical Demo Session - 60 min	R. Klein
12:00 ~ 13:00	Lunch Break	
13:00 ~ 14:30	<b>Twin-Screw Extrusion in Battery Manufacturing and Research</b> Continuous twin-screw compounding of battery slurries. Low-solvent battery paste extrusion. Cost-efficient and ecological twin-screw compounding of dry lithium-ion battery pastes	M. Jaehrling
14:30 ~ 14:45	Coffee Break	
14:45 ~ 16:15	<b>Parsum Inline particle characterization of slurries and powders in battery production using spatial filter velocimetry</b>  *Seminar and workshop for powder applications d. Parsum Working principle / Theoretical background - 15 min e. Examples / Case studies - 15 min f. Practical Demo Session - 50 min	R. Klein
16:15 ~ 17:00	<b>Rotational Rheology &amp; NMR Relaxometry in Battery Manufacturing and Research</b> II. Viscoelasticity Rheological terminology, Dynamic oscillatory measurements, Creep & Recovery NMR T2, Sedimentation rate, Dispersion and Distribution.	Dr. SR Kim
17:00 ~ 17:20	Open Discussion & Farewell	MCIK, Sopat & Thermo Fischer Scientific

## |참가신청|

참가신청서를 Fax 또는 E-mail 로 보내주시기 바랍니다. (Fax: 02-3143-2753 / infor@mcik.co.kr)

\*접수마감 2024년 3월 8일 금요일 05:00PM (한정된 좌석 사정으로 등록 순서대로 참가증을 교부 합니다.)

## |문의|

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