



Precompetitive Collaborations on Enabling Technologies for Pharmaceutical Research and Development

Time	Title	Speaker
8:30 – 8:35 am	Introductory Remarks	James Vergis <i>ETC Secretariat – Drinker Biddle & Reath LLP</i>
8:35 – 9:10 am	Leveraging the Power of Numbers in the Development of 'Next Generation Supercritical Fluid Chromatography (SFC) Instrumentation	Mirlinda Biba <i>Merck & Co.</i>
9:10 – 9:45 am	A Collaborative Study on High Throughput Solid Dispensing Platforms	Matthew Bahr <i>GlaxoSmithKline</i>
9:45 – 10:20 am	Shedding a Light on Solubility Measurement and Prediction - The ETC Solubility Sub Team's Story to Date	Simon Yates <i>AstraZeneca</i>
10:20 – 10:35 am	<i>Break</i>	
10:35 – 11:10 am	Addressing Drying Challenges in the Pharmaceutical Industry	Joshua Engstrom <i>Bristol-Myers Squibb</i>
11:10 – 11:45 am	Review of Existing In-Process Imaging Techniques with an Eye Toward the Future: A Multi-Dimensional Particle Size and Shape Analysis Tool	Rahn McKeown <i>GlaxoSmithKline</i>



Enabling Technologies Consortium™(ETC)

- AbbVie • Amgen • AstraZeneca • Biogen • Boehringer Ingelheim •
- Bristol-Myers Squibb • Celgene • Eli Lilly & Co. • Genentech •
- GlaxoSmithKline • Merck & Co. (USA) • Pfizer • Takeda •

What
is ETC?

A Forum for member companies to discuss ideas, share information, and collaborate on the development of new enabling technologies with 3rd parties such as universities, vendor companies, etc.

Who
is ETC?

Pharma & biotech companies collaborating on issues related to pharmaceutical chemistry, manufacturing, and control with the goal of identifying, evaluating, developing, and improving scientific tools and techniques that support the efficient development, and manufacturing of pharmaceuticals.

How
does ETC
work?

Discussion Phase

- Identify projects of mutual interest
- Identify SMEs & champions
- Brainstorm specific topics for focus and collaboration

Proposal Phase

- Team leads & SMEs prepare project proposals
- Evaluate project proposals
- Progress project Proposals to execution

Execution Phase

- Companies jointly invest in and progress projects to execution

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ETC Current Project Portfolio

Pre-Charter
Proposal Refinement
Chartering
Execution

Modeling Cloud	Multi-Dimensional PSS Tool	Continuous Crystallizer	HT Solubility Instrumentation	Scale Down Dryer	Modeling Drying	Solubility Data Sharing	PAT Drying	Online UPLC	Personal Parallel Reactor #1	Personal Parallel Reactor #2	Semi-Prep SFC	PBM Project #1	PBM Project #2
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AbbVie	X	X	X		X	X	X	X			X	X	X
Amgen	X	X	X	X	X	X	X	X	X	X	X	X	X
AstraZeneca		X		X	X	X	X	X		X		X	
Biogen	X	X	X					X			X	X	X
Boehringer Ingelheim	X	X	X	X	X	X	X	X			X	X	X
Bristol-Myers Squibb	X	X	X		X	X	X	X			X		X
Celgene									X	X			
Eli Lilly & Co.		X	X	X	X	X	X	X			X	X	X
Genentech/Roche					X	X	X	X			X		
GlaxoSmithKline		X	X						X			X	X
Merck & Co. (USA)		X	X	X	X	X	X	X	X	X	X	X	X
Pfizer		X	X	X	X	X	X	X	X	X	X	X	X
Takeda		X	X	X	X	X	X	X				X	X

Shared cost + shared resources + shared expertise = new & improved technologies

ETC Working Groups & Teams will:

- Identify areas where new commercial technology (or improvements to existing technology) would benefit the pharmaceutical industry
- Develop consensus industry requirements for the proposed technology
- Solicit interest from the community to collaborate in these areas through a public RFI/RFP process
- Consider requests from 3rd parties to collaborate on a project
- Provide subject matter expertise in support of the project
- Provide funding in support of the project

Expectations for 3rd Party Collaborators:

- Indicate interest in partnering with ETC on a project through response to RFI/RFP or making a direct request to ETC
- Provide expertise in support of the project
- Provide funding in support of the project (e.g. through shared cost model, application of ETC member costs to future discounts, etc.)
- Work with ETC project teams as collaborative partners to drive development
- Commercialize the output of a project and provide support



Today: Let's Focus on the Science

- Please ask the speakers about their projects, the science, the data, etc.
- For questions regarding how to join ETC or collaborate with ETC please see me during the break or after the session

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