**Newsletter Instruction Sheet PharmTech Europe ACHEMA Daily**

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**Subject Line:** **Day 2: ACHEMA in Full Swing**

PharmTech ACHEMA Daily (new digital edition alert as of June 16, 2015)

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ECN Group                         PTE\_Digital

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**Mail Date: June 16, 2015**

**Time to send: 8 am UK time**

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| SPECIAL EDITION |

<this header will be set up like the ACHEMA preshow newsletter – Text in Blue>

| DAY 2: ACHEMA IN FULL SWING|

<text below Section head>

ACHEMA is known as the world forum for chemical engineering and the process industry. As movers and shakers gather at Frankfurt am Main from 15–19 June to showcase their innovative technologies, new developments, products, and services, the editors of *Pharmaceutical Technology Europe* bring you updates from the exhibition floor in this special edition of show daily e-newsletters.

| IN THIS ISSUE |

<create links to content items listed below>

New Machines and Solutions

Nano-Containment Technology

Trouble-Free Freeze-Drying

<left side newsletter body content – 1 column>

<1 column>

| ACHEMA NEWS **|**

Headline: Bosch Highlights Flexible and Energy-Efficient Process Technology Solutions at ACHEMA

Summary: Bosch’s market launches at the show include a new bioreactor for laboratory-scale API development, a water-for-injection unit, and a new generation of pure steam generators with high yields.

URL: www.pharmtech.com/bosch-highlights-flexible-and-energy-efficient-process-technology-solutions-achema&topic=400,309,315,300&cid=PTE

Headline: New Machines and Solutions from Optima Pharma

Summary: Optima Pharma is exhibiting a range of technologies from sterile-filling and freeze-drying solutions to isolators and restricted access barrier systems.

URL: www.pharmtech.com/new-machines-and-solutions-optima-pharma&topic=400,315,329,305&cid=PTE

Headline: PSL Exhibits Nano-Containment Technology

Summary: PSL has developed a dispensary isolator with a contained drum hoist mechanism for highly potent API production.

URL: www.pharmtech.com/psl-exhibits-nano-containment-technology&topic=300,304,400&cid=PTE

Headline: Domino Delivers Serialization Master Class at ACHEMA

Summary: Domino’s G-Series thermal ink jet, D-Series laser coders, and V-series thermal transfer printers have been developed to help manufacturers comply with new global serialization and traceability legislation.

URL: www.pharmtech.com/domino-delivers-serialization-master-class-achema&topic=400,315,312,313&cid=PTE

Headline: Telstar Integrates Vial Rejection Module into Automatic Vial Loading and Unloading Systems

Summary: Telstar has developed an innovative in-line vial management system for recognition and marshaling of vials in automatic loading and unloading systems.

URL: www.pharmtech.com/telstar-integrates-vial-rejection-module-automatic-vial-loading-and-unloading-systems&topic=400,315,312&cid=PTE

| PHARMACEUTICAL MANUFACTURING EXPERTISE: FOCUS ON FREEZE DRYING **|**

**<text under heading>**

ACHEMA is a key event for many industries, including pharma. No doubt the processes involved in pharmaceutical manufacturing have significant impact on the quality and performance of the final drug product. *Pharmaceutical Technology Europe* has an extensive [archive](http://www.pharmtech.com/taxonomy/term/3301) of pharmaceutical manufacturing features and our editors have handpicked some of our top articles to supplement your ACHEMA experience.

Headline: Designing Trouble-Free Freeze-Drying Processes

Summary: Efficient freeze-drying processes result in time and energy savings, reduced failure rates, and improved batch consistency.

URL: www.pharmtech.com/designing-trouble-free-freeze-drying-processes&topic=305,400,335&cid=PTE

Headline: Lyophilization Cycle Optimization of Cell-Derived Products

Summary: This article looks at the factors that can influence protein behaviour during lyophilization of a pharmaceutical product and the ways in which manufacturers can reduce processing costs and timelines.

URL: www.pharmtech.com/lyophilization-cycle-optimization-cell-derived-products&topic=305,400,335&cid=PTE

Headline**:** New Developments in Controlled Nucleation: VERISEQ Nucleation Technology

Summary: The VERISEQ nucleation technology offers a commercially viable technique for cryogenically generating a uniform dispersion of microscopic ice crystals (or ice-fog).

URL: www.pharmtech.com/new-developments-controlled-nucleation-veriseq-nucleation-technology&topic=305,400,335&cid=PTE

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