Meet the Expert

Jerry is a recognized expert in containment control strategies for potent compounds and clean-in-place (CIP) technology. He has extensive experience with API manufacture and formulation and batch hydrogenation facilities. He has provided his airflow and barrier technology expertise and best practice recommendations to leading pharmaceutical and biotechnology manufacturing companies around the world.

For more than 25 years, Jerry has focused on batch and continuous processing engineering and possesses extensive experience with batch hydrogenation facilities. He offers flexible and adaptable batch processing solutions, contamination control strategies and CIP approaches for bulk chemical production.

Jerry's project experience includes process engineering management for completed projects such as:

- 250,000sf state-of-the-art Bulk Manufacturing Facility renovation to handle more mature, high titer processes. Consisting of 122+ subprojects, the finished facility provides a 300% increase in yield over previous output. The project was awarded the 2010 ISPE Facility of the Year, Operational Excellence.
- 120,000sf, $200+MM Bulk API Process Scale-up Facility designed to handle different substances simultaneously and utilizing high levels of containment and aqueous and solvent-based CIP technology.
- 230,000sf, $400+MM Multiple Scale Organics Pilot Plant with containment requirements of less than 10 micrograms/m3 for routine processing and adaptable to less than 1 microgram/m3 in specialized areas.

Jerry holds a BS degree in Chemical Engineering from Georgia Institute of Technology and a BA degree in Chemistry from Franklin and Marshall College. He has written numerous articles, studies and technical papers on pharmaceutical pilot plants, CIP technology and the design of containment systems. Jerry is also an accomplished speaker who has addressed many relevant topics to industry and trade associations.

Contributing Author

Jerry's chapter focused on the design of potent API facilities for both chemically and biologically driven substances in, *Clean-in-Place for Biopharmaceutical Process*.

Gerald Cerulli, PE

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Areas of Expertise

- Achieving Business and Project Objectives
- CIP Technology
- Process Engineering
- Bulk API Formulation
- Excellence in Manufacturing
- Contamination Control
- Award Winning Projects
- Strategic Planning
- Technical Consultancy