



May 18-19, 2011

Orthopaedic Capital Center at Grace College  
Winona Lake (Warsaw), IN

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## Conference

### Manufacturing Processes and Validation for Next Generation Implants

Rick Schulz, Validation Engineering Manager, Norman Noble, Inc.

Often an OEM will approach a Contract Manufacturer with a concept of a product or process, looking for the expertise of the Contract Manufacturer to produce the product. We will explore the optimal relationship that will produce the fastest turnaround of the highest quality product, while meeting the complex regulatory requirements.

This presentation will cover:

- How do partnerships between the OEM and the Contract Manufacturer affect the end results?
- Choosing the correct manufacturing process for attaining all acceptance criteria and optimal throughput.
- How can process validation help us make the right manufacturing choices?

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**Rick Schulz**  
**Validation Engineering Manager**  
**Norman Noble, Inc.**

Rick Schulz, the Validation Engineering Manager for Norman Noble, Inc. has worked in the medical manufacturing industry for over seventeen years, both for a major OEM and for contract manufacturers. Rick has experience in medical manufacturing as a CNC machinist and in injection molding, in mechanical and manufacturing engineering, and in validation engineering. Rick holds a degree in Mechanical Engineering, has background in Systems Analysis and completed a Tool and Die Maker apprenticeship.

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