

SYMPOSIUM

CONVERGENT MANUFACTURING

AT POINT-OF-NEED (PoN)

GENERAL CO-CHAIRS: AJAY P. MALSHE (1) AND PAULINE SMITH (2)
¹PURDUE UNIVERSITY AND ²ARMY RESEARCH LABORATORY (ARL)

The symposium will discuss novel technologies for the convergence of multi-materials and their form factors, hybrid manufacturing processes, and digital-physical integration, for manufacturing at the point-of-need to deliver resilient supply chain.

CALL FOR PAPERS - LETTER QUALITY (<4 PAGES, CAMERA-READY)

CONTRIBUTIONS IN THE FOLLOWING AREAS

MULTIFUNCTIONAL AND RESILIENT DESIGNS

E.G., BIO-INSPIRED DESIGNS, CO-DESIGN (GEOMETRY AND MATERIALS)

MULTI-MATERIALS

E.G., NEW ALLOY DEVELOPMENT,
FUNCTIONALLY GRADED STRUCTURES

HYBRID MANUFACTURING PROCESSES

E.G., THE CONVERGENCE OF MULTI-PROCESSES (ADDITIVE, SUBTRACTIVE,
AND TRANSFORMATIVE), PHYSICAL-DIGITAL SYSTEMS

INTEGRATION AND SYSTEMS

E.G., MODULAR MANUFACTURING,
POINT-OF-NEED MANUFACTURING

TESTING AND VALIDATION STRATEGIES

E.G., APPLICATION OF AI/ML
FOR PART QUALIFICATION

WORKFORCE DEVELOPMENT

NOVEL CURRICULA IN THE ABOVE
TECHNICAL AREAS

PAPER DUE DATE: AUGUST 15, 2025; FINAL REVISED DUE: SEPT. 15, 2025

PLEASE SUBMIT YOUR MANUSCRIPTS - [SUBMIT HERE](#)

FOR MORE DETAILS, PLEASE EMAIL US AT: CMS.MMRL@PURDUE.EDU

ORGANIZING COMMITTEE

BAPAT, CLUFF, JUN, MALSHE, SEALY, SMITH, SOTELO, TITUS, YU

