

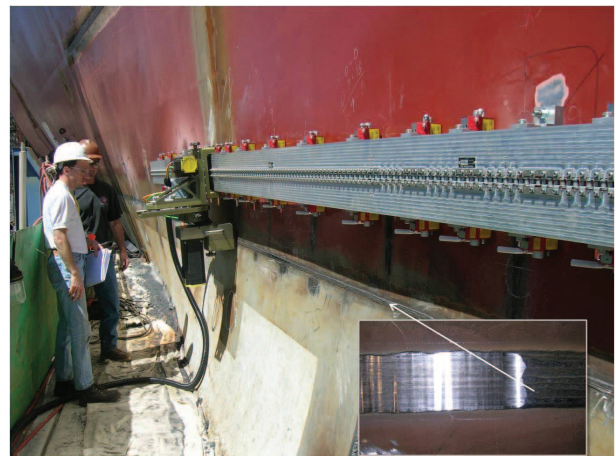
December 2010

## Navy Metalworking Center Team Earns 2010 Defense Manufacturing Technology Achievement Award



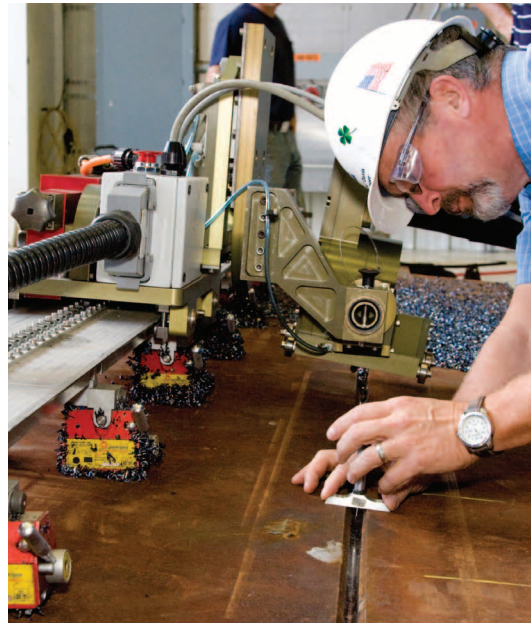
*Front: Michael Katz, CTC; John Carney, ONR; Tim Freidhoff, CTC; Edwin Erlbacher, PushCorp, Inc.; Robert Kirkwood, Ingalls Shipbuilding; Stephen Davis, BIW; Dan Winterscheidt, CTC. Back: Greg Woods, ONR; Ed Sheehan, CTC; Gene Franke, NSWCCD; Rick Zebrowski, NSWCCD; John Foster, BIW; Kevin Roossinck, Ingalls Shipbuilding. Not in attendance: Bruce Horn, CTC; Kyle Reasbeck, CTC. NMC photo*

The Navy Metalworking Center (NMC) and key partners received the 2010 Defense Manufacturing Technology Achievement Award, which is given annually by the Department of Defense Joint Defense Manufacturing Technology Panel (JDMTP). The project team was honored for the development and commercialization of a weld shaver system that has wide applicability for military ships, DoD weapon systems, and commercial structures. The award was presented at the Defense Manufacturing Conference (DMC 2010) in Las Vegas, Nevada, on November 30, 2010.



*Bath Iron Works is using a portable track weld shaver tool that automatically faces the weld reinforcement on DDG 51 and DDG 1000 exterior hulls, substantially reducing the amount of hand grinding and associated injury claims, labor costs, and production costs. Bath Iron Works photo*

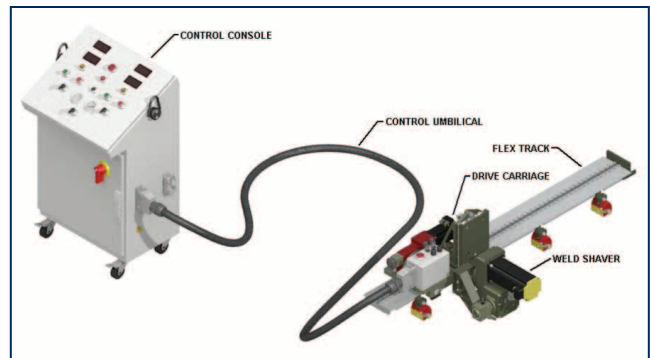
NMC, an Office of Naval Research (ONR) ManTech Center of Excellence operated by Concurrent Technologies Corporation (CTC), led a project that developed a mechanized tool that removes 80 percent of the weld reinforcement at rates exceeding 20 feet per hour. The tool was successfully implemented at Bath Iron Works (BIW) in the construction of DDG 51 and DDG 1000. The tool will reduce the construction cost of DDG 1000 by \$2.77 million and significantly decrease the number of injuries and resulting medical expenses incurred from manual hand grinding. The tool was also modified to perform back gouging and is being used by BIW on DDG 1000 construction and is planned to be used by Ingalls Shipbuilding, a division of Huntington Ingalls Industries.



*The track weld shaver system was modified to perform back gouging on DDG 1000, which will save \$400,000 in labor per hull. Bath Iron Works photo*

“This is an excellent example of our client focus and commitment to putting ideas into action, in this case to reduce weapon system acquisition costs, develop processes that are more safe and reduce workplace injuries, and significantly reduce the time required to complete critical manufacturing procedures,” said Daniel L. Winterscheidt, Ph.D., NMC Program Director. “This team’s innovative ideas and transition approach led to significant savings for the Navy.”

The Defense Manufacturing Technology Achievement Award recognizes and honors individuals most responsible for outstanding technical accomplishments in achieving the vision of the DoD Manufacturing Technology Program. The vision is to realize a responsive world-class manufacturing capability to affordably and rapidly meet warfighter needs throughout the defense system life cycle. Weld Seam Facing project team members included ONR, CTC, BIW, Ingalls Shipbuilding, Naval Surface Warfare Center Carderock Division (NSWCCD), General Dynamics Electric Boat and PushCorp, Inc.



*PushCorp, Inc., developed the track weld shaver concept and commercialized the technology. PushCorp image*



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This material was prepared by the Navy Metalworking Center, operated by Concurrent Technologies Corporation, under Contract No. N00014-10-D-0062 to the Office of Naval Research as part of the Navy ManTech Program. Approved for public release; distribution is unlimited.