

## North Dakota State University Barley CAP Group

by Karen Hertsgaard

North Dakota State University (NDSU) brings to the barley CAP a tradition of interdisciplinary research and education in the barley and malt sciences. Scientists from NDSU are Richard Horsley, Stephen Neate and Paul Schwarz. Dr. Schwarz is the director of the newly formed Institute of Barley and Malt Sciences (IBMS), centered at NDSU, which was created for the purpose of integrating barley and malt science research and education in one location.

Dr. Yin Li, a post-doc working with Dr. Schwarz, will be determining beta-glucanase activity and thermal stability for the CAP germplasm.

Dr. Horsley is a barley breeder who is screening 960 CAP breeding lines each year for dormancy, and screening the CAP breeding lines from the Midwest for FHB resistance in the Osnabrock nursery each summer. Horsley recruited a new PhD student, Jenny Bolivar, who will oversee the dormancy screening as part of her dissertation research.

Dr. Stephen Neate, plant pathologist, is supervising the screening of CAP germplasm for resistance to common root rot caused by *Cochliobolus sativus*, as well as collaborating with Dr Kevin Smith at University of Minnesota in screening for Fusarium Head Blight disease in two locations in ND. Dr. Neate's PhD student, Sanjaya Gyawali, is developing methods for efficient screening for common root rot resistance for his dissertation.

Karen Hertsgaard began work as Barley Information Specialist (BIS) for the IBMS on November 1. Karen has a M.S. in Agronomy and experience in Extension and agricultural education outreach. Her efforts will include developing educational programs and materials designed to reach all stakeholder (grower and industry) groups. The BIS position is partially funded through the Barley CAP.



Left to right: Richard Horsley, Stephen Neate, Karen Hertsgaard, Paul Schwarz