Fourdrinier Pilot Paper Machine

- Raw material and/or chemical additive studies
- Retention studies
- Furnish studies including non-cellulosic and non-wood fibers
- Pulping and bleaching
- Commercial grade development
- Production runs
- Equipment evaluation
- Recyclability and repulpability studies
Pulping and Bleaching

- Trials for wood and non-wood biomass, including food-processing byproducts and agricultural residual materials
- Benchtop equipment sized 50-360 grams dry product weight
- Tank volume pulping and bleaching tests with 5-liter, 10-liter and 100-liter vessels
- Quantum mixer allows bleaching experiments with chlorine dioxide, hydrogen peroxide and ozone

Pilot Plant Specifications

- Fourdrinier machine
- Speeds up to 200 fpm
- Produces a 20-inch sheet in basis weight from 25 to 400 gsm
- Chemicals can be metered in at seven locations
- Wet end includes a dandy roll, single-felted two-nip wet press and a smoothing press
- Dry end features two independent dryer sections, horizontal size press and calender stack
- Stock preparation area features a hydropulper, two-stage cleaner system, slotted pressure screen and automated temperature control

Contact:

Lindsey Hoffman
Laboratory and Papermaking Project Specialist
715-346-3796
Lindsey.Hoffman@uwsp.edu

Brian Bandow
Paper Machine and Laboratory Specialist
715-346-3733
Brian.Bandow@uwsp.edu

WIST is online: www.uwsp.edu/wist