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The Dandy Scroll, Winter 2008

University of Maine Pulp and Paper Foundation

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Executive Director's Corner

by Jack Healy

We have a lot to be thankful for as a foundation – a great University, terrific professors, outstanding volunteers, and a great endowment fund. However, our greatest blessing is our students. Coming to “work” each day is such a joy knowing there is a high likelihood that 5-6 students will stop by the office to ask about their scholarship; ask for help finding a co-op job; request advice about which job to choose; and sometimes students drop by just to say “hello”.

Yes, I said “which job to choose”. Our students are getting multiple offers this year, and they are in high demand. Beginning offers appear to be up \$2,000 to \$3,000 over offers last year. There seems to be a strong recognition among employers that the job marketplace is only going to become more competitive and that engineers will be in short supply for some time to come.

There is also recognition that the University of Maine is a great place to hire engineers. In October an engineering career fair was held at the new fitness center on campus. More than 100 companies participated, many conducting on-the-spot interviews. We were very proud of our students. They stood out among their peers, showing up dressed for interviews with resumes in hand.

This fall's co-op interview process was well used and attended. Faye worked closely with the Chemical and Biological Engineering Department to organize both company information nights and interview schedules. Again, many of our students had 4-5 offers. At this point in time, all of our Chemical and Biological Engineering students have accepted co-op positions, with several Civil and Mechanical Engineering students still waiting for internships. If you are aware of an internship opportunity for engineers, please contact either Faye or me and we will put you in touch with the students.

Our website has been redesigned with a more modern look. An increased emphasis has been placed on students. Scholarship recipient pictures and resumes are now available to company members in the Candidates for Placement section. In past years only information for seniors has been available. By adding first year students, sophomores and juniors, employers can better plan for hiring co-ops, and for hiring graduating seniors.

First Year - continued on page 2

Spring Scholarships to 82 Recipients Preparing for Paper Related Careers

Pulp and Paper Foundation Executive Jack Healy has announced the award of 2008 spring semester scholarships valued at more than \$260,000 to 82 undergraduate students preparing for pulp and paper related industry careers.

These awards, combined with fall semester scholarship awards, brings to more than \$550,000 the amount presented to University of Maine Engineering students by the Foundation during the current academic year.

By class, we have awarded 19 first-year scholarships of \$3,000 each for in-state and \$6,000 each for out-of-state students. Twenty-one sophomores, 26 juniors and 14 seniors received scholarships based on their maintaining at least a 3.0 GPA and their continued demonstrated interest in the paper and supplier industry. Each scholarship award has paid the recipient either full resident or full out-of-state tuition.

The students come from 65 Maine communities. Four out-of-state students are supported with one each coming from Massachusetts, New Hampshire, Connecticut and New York.

Thirty-three students are studying chemical engineering, 15 students are studying mechanical engineering and 9 students are studying electrical engineering. Other students are preparing for paper related careers by enrolling in biological engineering, civil engineering, informational systems engineering, forestry and electrical and mechanical engineering technology.

Additional information about Pulp and Paper Foundation scholarships is available by calling (207) 581-2296 or by visiting our website at: www.maineulpaper.org. Our website features downloadable scholarship applications for both incoming first year students and for students currently enrolled at UMaine.



Scholarship check presentation (left to right) Bryanna Lemieux, Civil Engineering; Sam Gerges, Chemical Engineering; Elizabeth Miller, Chemical Engineering and Dale Wibberly, Sappi Fine Paper. HR Managers from Sponsor and Underwriter companies were invited to present scholarship checks to scholarship recipients.

Sustainability and YOUR Future in the Pulp & Paper Industry Topic for Paper Days - April 9 & 10th, 2008

Open House Chair, Albert B. Moore has announced the University of Maine Pulp and Paper Foundation, Northeast PIMA and the Maine Pulp & Paper Association will once again join together to bring you “Paper Days 2008”. Day one will focus on sustainability and day two will focus on attracting top talent to the pulp and paper industry. The event is scheduled for Wednesday, April 9th and Thursday, April 10th, 2008.

The format for Paper Days will be the same as the last few years with keynote speakers; industry panels, our traditional “student/industry” town-meeting style forum, welcome luncheon, breakfast with current scholarship recipients, and our honors banquet.

Featured speakers include Doug Hall, President, Eureka Ranch; Lyle Fellows, Verso Paper; John Donahue, Managing Director, Sappi Fine Paper; Dana Humphrey, Engineering Dean, UMaine; and Robert Kennedy, President, UMaine.

Program brochures featuring session details and registration information will be mailed mid-February. Complete program information will also be available on the Foundation's website at www.maineulpaper.org.

Registration for Paper Days 2008 can also be accepted over the telephone by calling Faye Woodcock Murray in the Foundation office at (207) 581-2207.

Dr. Peter van Walsum Joins University of Maine Chemical and Biological Engineering Faculty

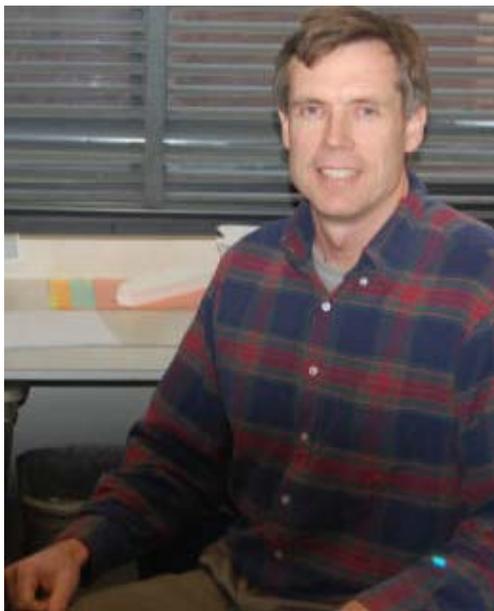
Peter van Walsum holds a PhD in Biochemical Engineering from Dartmouth College, as well as Masters and Bachelor degrees in Chemical Engineering from McGill University, and a BA in Geology from Williams College, MA. He has worked at Baylor University since 1998, reaching the rank of associate professor with tenure in the Department of Environmental Studies. At Baylor, he had secured more than 1 million dollars in grant support from various sources in state and federal governments, as well as industry. He comes to UMaine to join the Chemical and Biological Engineering Department as a part of the Forest Bioproducts Research Initiative (FBRI).

Dr. van Walsum has dedicated his career to research and industrial work in energy supply, production and sustainability. With industrial experience in oil production and refining, and research work in conversion of lignocellulose to biofuels and bioproducts, van Walsum is enthusiastic to be contributing to the FBRI at UMaine. The expertise present at UMaine in production, handling and processing of wood feedstocks is an ideal complement to van Walsum's expertise in bioprocessing fuels and chemicals. Van Walsum first worked on integrating biofuel production with the pulp and paper industry while a Ph.D. student at Dartmouth College in 1993.

"The pulp and paper expertise and its strong links to the industry make UMaine the ideal site

for moving my research ideas into the marketplace" says Peter.

Peter is already working with three graduate students (1 PhD and 2 MS) and one postdoctoral researcher. He is leading the biological processing research cluster in FBRI.



Peter van Walsum joins UMaine Chemical and Biological Engineering Department



Northeast PIMA is pleased to recognize Danielle Reider with its 2007 Northeast PIMA First Year Student Scholarship. Danielle graduated with honors from John Bapst Memorial High School in Bangor in 2007 and was a varsity member of both the tennis and ski teams. In addition, she was a member of the Key Club and the Chorale Council. Danielle is also a Pulp and Paper Foundation scholarship recipient majoring in Biological Engineering with a minor in Dance. Her father, Michael, works at Katahdin Paper Company in Millinocket. According to Northeast PIMA Scholarship Committee Chair, John Wolanski; "Danielle is an excellent role model and hard working engineering student at UMaine. Congratulations Danielle".

The Pulp & Paper Foundation Receives 3rd Largest Gift in Foundation History

The Pulp and Paper Foundation was pleased at the end of 2007 to receive an additional gift from the bequest of John and Lucille Lewis. The augmentation to the Lewis fund makes it the 3rd largest single gift in the history of the Foundation. John passed way in 1981 and Lucille in 2005. The gift in 2007 was for \$383,064, bringing the total of this gift to \$538,780. John's paper industry career is outlined below.

John Lewis was born on October 16, 1918 in Skowhegan where he was raised and graduated from high school. He married his high school sweetheart, Lucille Clark, on January 30, 1943, a week after graduating from UMaine and died on November 11, 1980. He was a UMaine alumnus receiving his B. S. in Chemical Engineering in 1943 and an M.S. in Pulp and Paper Technology in 1948.

As an undergraduate John held summer jobs at Penobscot Chemical Fibre Company in Old Town and at Eastern Fine Paper in Brewer. After graduating, and being married, he moved to Relay, MD where he became a maintenance supervisor for Calvert Distilling Company for three years.

Returning to UMaine in 1946, he studied for his master's degree and was an instructor in the Department of Chemistry. In 1949 he was pro-

moted to assistant professor in chemical engineering and also became a registered professional engineer. He was a charter member of the University of Maine Pulp and Paper Foundation when it was founded in 1950.

In 1952 he became head of the Department of Paper Technology at Lowell (MA) Textile Institute (now the University of Massachusetts Lowell) until joining the Pulp and Paper Research Center affiliated with Bolton Emerson Company in Lawrence, MA in 1960. He was a co-editor, with Dr. Lyle Jenness, of the University of Maine Lecture Series on Pulp and Paper Manufacture published in 1950 (and updated in 1952) and widely used as a textbook for many years. He was a lecturer at the first University of Maine Pulp and Paper Summer Institute held in 1960.

He joined Rust Engineering as director of pulp and paper research and development in 1970 and then Union Camp Corporation as process equipment engineer in 1974. He became director of research at Knox Woolen Company in Camden, ME from 1978 until the time of his death.

In 1974 he was named a Fellow by the Technical Association of the Pulp and Paper Industry, an honor granted to less than 1% of TAPPI members recognizing their contributions to the paper industry and the Association. He was chair of the New England Section of TAPPI and chair of the College Relations

Sub-Committee of the Manpower Operations Committee of TAPPI. He served for three years on the TAPPI board of directors.

We are grateful to John and Lucille for their generous donation, and for thinking of our students. The gift was given for the purpose of providing advancement to the study of pulp and paper engineering at UMaine.



John Lewis, '43, B.S. Chemical Engineering; M.S. Pulp and Paper Technology.



University of Maine Chemical and Biological Engineering Biorefinery Update

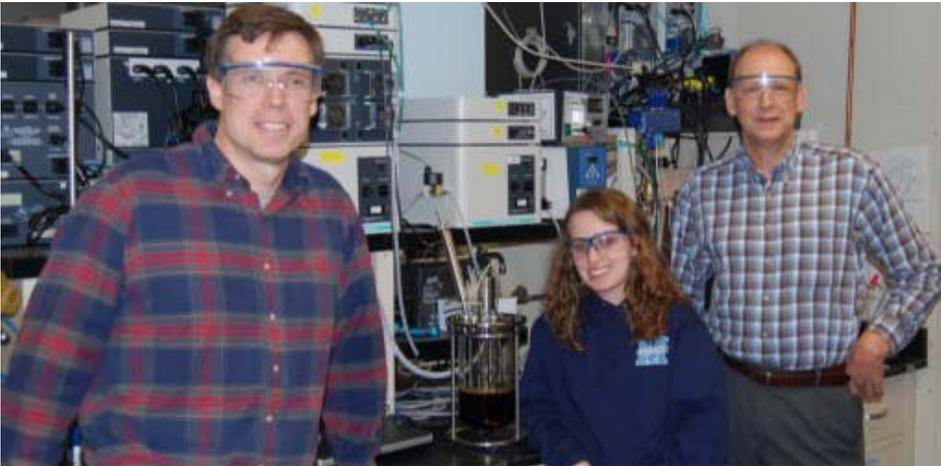
The University of Maine's proprietary "van Heiningen process" for hemicelluloses extraction from woodchips prior to pulping is moving towards technology deployment stage. The "van Heiningen process" is UMaine's patent-pending technology developed with grants from the Department of Energy on its Industries of the Future (IoF) program, the National Science Foundation on its EPSCoR program, and International Paper. This process is key to adding capacity of co-production of new value-added products like fuels, chemicals and polymers to existing pulp mills.

In Fall 2007, UMaine researchers (Peter van Walsum, Adriaan van Heiningen, and Sara

Walton) have fermented hardwood extracts obtained using the "van Heningen process" at a dissolved solids level of 6% without the need for any purification post-processing to remove inhibiting compounds. To date, yields from sugars have generally exceeded 80% of theoretical. Preliminary findings indicate that the organisms are acclimatizing to the extract and that conversion at higher levels of dissolved solids may be achievable. Recent results also suggest that large amounts of supplemental nutrients may not be necessary to enable conversion. Earlier work was limited to "model" mixed sugar solutions and concerns were expressed regarding possible inhibitory effects of sodium in real extracts. Current work with actual

extracts gives increased confidence in design concepts based on extract fermentation.

During December 2007, Red Shield Pulp and Chemicals has converted its two existing single-vessel digester systems to one, two-vessel digester system in the Old Town Mill. Andritz Inc., from Glens Falls, NY supplied engineering and equipment for this conversion. The existing chip feedline is used to feed woodchips to the second vessel which is used as a vapor phase impregnation vessel for extraction. Partially cooked impregnated chips are transferred with a new bottom circulation loop from the second vessel to the existing first vessel which is used as the main cooking vessel. Aqueous extract, rich in dissolved hemicelluloses, obtained using the "van Heiningen process" is to be taken out of the impregnation vessel, with a portion to be used for recirculation within the impregnation vessel itself and the remainder to be used for further conversion to ethanol. The new single two-vessel system has been running well for several weeks. Work on impregnation vessel extract management is now processing well without interrupting the production of salable market pulp production. Extract characterization is expected to provide data necessary to obtain ethanol co-production design parameters for the proposed satellite plant of 2 million gallons per year capacity. Work is underway to optimize the overall framework of an integrated forest product refinery.



Pictured from left to right are Dr. Peter van Walsum, Sara Walton, (Graduate Research Assistant) and Dr. Adriaan van Heiningen.

The University of Maine Process Development Center Introduces New Services

Fiber morphology is a set of fundamental pulp properties that strongly affects paper performance and the paper manufacturing process. Accurate measurements of fiber properties can assist mill personnel in optimizing paper quality, paper machine efficiency, raw material selection, and manufacturing costs.

The UMaine Process Development Center is now able to offer the use of the TechPap MorFi fiber analyzer to their clients for characterizing fibers (width, length, coarseness, curl, and kink), shives, and fine elements in pulp. The unit operates by pumping an aqueous suspension of fibers through a measuring cell where a high resolution digital camera captures images of the individual fibers. These images are rapidly analyzed by the software and critical fiber morphology parameters are determined. The unit can discriminate fibers within the range of 0.1 to 10 mm in length and 5 to 75 mm in width, making it suitable for most types of wood and non-wood paper making fibers.

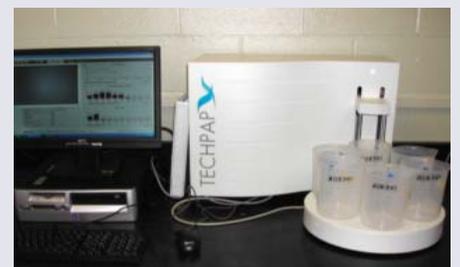
The distribution of fiber properties is often as important as their mean values in determining pulp quality. The Morfi uses ten parameter intervals and computes the distribution func-

tion and cumulative distribution for each parameter, on either a number, length or area weighted basis. Bimodal distributions can be used to approximate the ratio of fiber species of a pulp sample, which is commonly used to track the transition of pulp grades in production processes.

The University of Maine Process Development Center also offers a full array of traditional microscopic fiber identification services. Fiber species, degree of refining, and pulping process employed (chemical or mechanical) can be determined.

In addition to the Morfi fiber analyzer and traditional microscopic fiber identification services, an automated sheet splitting device is also available to determine fiber and filler distributions through the thickness of paper and board products. This device is especially useful in troubleshooting web forming issues and for reverse engineering studies.

For information on using these fiber characterization services at The University of Maine Process Development Center contact Betty Ingraham, Research Associate, communicate by telephone at (207)-581-2281 or by email at: bingraham@umche.maine.edu.



Pictured (top photo) is the laboratory sheet splitter (bottom photo) is the TechPap MorFi Fiber Analyzer.

Dana N. Humphrey Named Dean University of Maine College of Engineering

Dana N. Humphrey has been appointed dean of UMaine's College of Engineering, effective July 1, 2007. Dr. Humphrey's appointment is for a period of four years.

He has served as interim dean of the College of Engineering since September 2006, succeeding Dr. Larryl Matthews, who left to become a dean at Purdue North Central University in Indiana.

The University of Maine College of Engineering has eleven undergraduate and seven graduate programs, which currently serves over 1400 students. The college averages \$10 million per year in research funding, which averages out to approximately \$200,000 per full-time faculty – the highest of all New England land grant colleges.

From 2000-2006, Dr. Humphrey served as Chair of the Department of Civil and Environmental Engineering at UMaine. He served UMaine as past Faculty President and is a past recipient of the Distinguished Maine Professor

Award and the Carnegie Foundation Maine Professor of the Year, as well as of many other distinguished teaching and service awards.

An internationally recognized scholar in his field, Dr. Humphrey has pioneered the research and development of tire derived aggregate for civil engineering applications, earning him the title, "Dr. Shred." He has published more than 100 papers and book chapters and has worked to bring in over \$2.5 million in funded research to UMaine since 1986.

Dr. Humphrey earned a bachelor's degree with highest honors in Civil Engineering from the University of New Hampshire. He then earned both a master's and a Ph.D. in civil engineering from Purdue University. In addition, Dr. Humphrey has worked as professor of civil engineering at UMaine and as a Geotechnical Engineer in Colorado and Missouri.

Dr. Humphrey is registered as a Professional Engineer in Indiana and Maine and a registered Civil Engineer in California.



Dr. Dana N. Humphrey, Dean, University of Maine College of Engineering.

Three Pulp & Paper Foundation Scholarship Recipients Attend CPBIS Symposium in Atlanta, GA

The Pulp and Paper Foundation supported three students who attended a Center for Paper Business and Industry Studies (CPBIS) symposium in Atlanta, GA, during fall break. Students Sarah Enman, junior, Chemical Engineering; Ryan Birkel, junior, Mechanical Engineering; and Joshua Pelletier, senior, Mechanical Engineering Technology, were able to gain a broad perspective on the paper industry, as well as learn non technical skills such as negotiation. The 5 days of training was held at the Georgia Tech campus. Tuition fees of \$2500 per student were waived by CPBIS, thanks to Ray Heuchling, President of Heuchling Associates and Foundation Vice President, who identified this opportunity for our students. The Pulp and Paper Foundation plans to support attendance of another 2-3 students in June 2008 to the same program. Sara and Ryan were on hand to report highlights of their trip at the Foundation's Executive Committee meeting held on December 7, 2007.



Pictured from left to right are University of Maine Pulp and Paper Foundation scholarship recipients, Ryan Birkel, Sarah Enman, and Joshua Pelletier

First-Year Scholarship Recipients "Surprised" with Welcome Gifts

First-year scholarship recipients were welcomed by Foundation Executive Director, Jack Healy, and Manager of Administrative & Program Services, Faye Woodcock Murray at a banquet held in their honor in September. Also in attendance were four upperclass scholarship recipients who were selected to lend support and to be a source of information in answering questions our new students posed to them.

Barbara K. Hamilton, Energy Consultant, Emerson Process Management, was the guest speaker. In her presentation Barbara congratulated the students on their accomplishments and also talked about the career opportunities that would be waiting for them when they graduate.

After dinner, students were presented with "welcome" gift bags filled with useful dorm and desk trinkets. Foundation company members supplied gifts sporting corporate logos as a reminder to the students of their future employment possibilities.



First-year scholarship recipient's "welcome" gift bags distributed at their fall banquet.



Alumni Personals

Lee M. Bingham, '63, is now President and CEO of Marcal Paper Mills, Inc., in Elmwood Park, VA.

William A. Luciano, '75, has been named Vice President, Drying Technology, Albany International in Albany, NY.

Laurence S. Hutchinson, '81, has been promoted to Principal Consultant, Nalco Pacific Paper Services in Changhai, P.R. China.

Carl J. Marsano, '84, has joined Amec, Inc., in Portland, ME as Senior Mechanical Engineer.

Dana H. Seekins, '87, is now US Atlantic Regional Sales Manager with J & L Fiber Services, Inc.

Jason W. Lyons, '88, has joined Honeywell Inc., Westbrook, ME as Account Manager.

David Morrison, '92, is now Assistant Professor, Mechanical Engineering Technology at The University of Maine, Orono, ME.

Christopher J. Plant, '93, has joined National Starch and Chemical, Bridgewater, NJ, as a Sales Supervisor.

Vanessa E. Olsen, '94, has joined MACTEC Federal Programs, Inc., in Herndon, VA as a Project Engineer.

Scott Varney, '96, has joined Fraser Papers, Inc., in Madawaska, ME as Paper Machine Superintendent.

Jennifer Johnston, '97, has joined Georgia Pacific in Atlanta, GA as Manager, Process Safety.

Joshua Mathews, '98, has joined Lincoln Paper and Tissue in Lincoln, ME as a Pulp Mill Production Engineer.

Shawn M. Albert, '99, is now a Chemical Sales Representative with Buckman Laboratories, Memphis, TN.

Justin L. Hebert, '99, has been promoted to Engineering Manager, Home Care Engineering for Procter & Gamble in Cincinnati, OH.

Lawrence Ellis, III, '03, has joined Canis Corporation in Lasalle, IL, as a Process Engineer.

Amanda (Birmingham) Soucier, '06, is now an Energy and Water Resources Consultant with Kleinschmidt Associates in Pittsfield, ME.

Newsorthy

Two Pulp and Paper Foundation students, Megan Worcester, a senior, chemical engineering student from Winterport, ME, and Alex Ortiz, a sophomore chemical engineering student from Orrington, ME, joined Foundation Executive Director, Jack Healy to welcome Pete Correll and his wife Ada Lee to Campus in October. Pete heard presentations from Jack, Dr. Hemant Pendse, Chair, Chemical and Biological Engineering, and Jake Ward, Asst. V.P. of Research, Economic Development and Government Relations, University of Maine during his visit.

Alex is the recipient of the Elizabeth Correll scholarship and will co-op at the Verso mill in Bucksport. Megan will graduate in 2008 with a degree in Chemical Engineering.

Pete was pleased with the resurgence in interest that students have in the Pulp and Paper Foundation and its scholarship program. He was also impressed with the research that is underway at the University in the biorefinery area.

Pete graduated from the University of Maine with a Masters Degree in Chemical Engineering.

Campaign Maine: People, Opportunity, Impact

We have had a number of questions regarding the University's \$150 million *Campaign Maine*. Below are some answers.

What is *Campaign Maine*?

Campaign Maine is a comprehensive campaign that includes goals for faculty support, student financial aid, historical building renovations and operations. Every dollar contributed or pledged to UMaine regardless of the designation, between July 1, 2005 and December 31, 2011 will be counted as part of Campaign Maine.

Is the Pulp and Paper Foundation working with UMaine on *Campaign Maine*?

Yes we are. Jack has been meeting monthly with the Campaign Maine planning committee. The committee includes members of the Development Office, The University of Maine Foundation, the Alumni Association, and 4-H.

Do contributions to the Pulp and Paper Foundation count as part of *Campaign Maine*?

Yes they do. At the end of each quarter, the total of all contributions to the Pulp and Paper Foundation is communicated to the Development Office for inclusion in the totals.

Is my name and address shared with the Development Office?

The only information shared outside of the Pulp and Paper Foundation office is a total amount contributed from all sources. If you would like us to share your contribution information with the Development Office or Alumni Association for recognition purposes, please let us know when you submit your contribution.

2007 Pulp and Paper Foundation Accomplishments and 2008 Goals in a Nutshell

2007 ACCOMPLISHMENTS

- Increased Pulp and Paper Foundation scholarship recipients by 37%.
- Visited 52 high schools.
- Foundation income and spending was at budget.
- Added 11 new corporate members.
- Redesigned Foundation website - www.maineulpaper.org.
- Received one of the largest gifts in Foundation history.
- Created video, "I AM an Engineer".

2008 GOALS

- Increase scholarship recipients by another 10% to 90 students.
- Offer 4 weeks of Consider Engineering summer program instead of 2 weeks.
- Increase connectivity to recent graduates.
- Continue to grow Pulp and Paper Foundation corporate membership.

If you have an item for ALUMNI PERSONALS

contact

Faye Woodcock Murray
at the Foundation Office
(207) 581-2297

or email:

woodcock@maine.edu

Scholarship Applicants Seek Summer Jobs

Demonstrated career interest is one of two criteria all scholarship applicants and continuing scholarship recipients must meet. The second scholarship criteria, academic performance, is relatively easy to evaluate.

To demonstrate career interest each scholarship recipient must have a co-op or internship within the industry. We have a few students who are still looking for a summer internship or co-op position.

If you have a technical job that needs to be done this summer, we can help by providing resumes and arranging interviews. For more information please contact the Foundation's Executive Director, Jack Healy by email at healy@maine.edu or by telephone at (207) 581-2298. We can introduce you to students who want to apply their energy to your projects.

Foundation Membership Committee Welcomes New Company Members at November Meeting

UMaine Pulp and Paper Foundation Membership Committee Chair, John Wolanski, Vice President, Safe Handling Inc., welcomed and introduced representatives of our three newest corporate members at the Foundation Membership Committee meeting held in November at NewPage, Rumford, ME. Throughout the year the Membership Committee holds mini "Open House" meetings at various industry locations and invites all Foundation members to attend.

A complete report of company membership growth will be included in the Foundation's 2006 Annual Report.



RohmNova is a joint venture of Rohm and Haas Company (NYSE:ROH) and OMNOVA Solutions Inc. (NYSE:OMN), providing coating systems for the paper and paperboard market. Rohm Nova unites coating expertise and pilot facilities with the widest offering of latex binders, coating additives, and synthetic pigments, to deliver performance-optimized products and services for coated paper and paperboard. OMNOVA Solutions (www.omnova.com), a major innovator of emulsion polymers, specialty chemicals, and decorative and functional surfaces, is headquartered in Fairlawn, OH. Rohm and Haas Company (www.rohmhaas.com) is a Philadelphia-based specialty materials company that quietly improves the quality of life through products for personal care, home and construction markets, and the electronics industry.

Scott Frasca is the Northeast US and Eastern Canada Senior Account Manager. Scott can be reached by telephone at (518) 893-2087 or (518) 469-1782 or by email at sfrasca@rohmhaas.com.

Bill Magee, Rohm Nova's Director of Sales and Marketing, is excited about RohmNova's membership in the Pulp and Paper Foundation, as it provides support for students embarking on their pulp and paper careers and for regular networking opportunities with the leaders of the industry in Maine.



(left to right) Jack Healy, UMaine Pulp and Paper Foundation; Scott Frasca and Bill Magee, Rohm Nova; and Tony Lyons, NewPage



Univar USA Inc., is New England's largest chemical distributor providing chemicals for industry from our locations in Providence, RI, and Salem, MA. Univar has dockage and trans-loading facilities at the Port of Providence, operates a fleet of more than 50 semi-trailer trucks, tank trailers, and smaller vehicles to ensure shipments arrive on time.

Our terminals have the capacity to hold 60 rail cars, and we offer three-siding services, have a multi-station flexi-flow system for trans-loading tank cars, state of the art Sodium Hypochloride manufacturing complete with filtration, a Hydrogen Peroxide unit where de-ionized water is combined with peroxide to achieve the concentration of product as specified by the customer, new up-dated Aqua Ammonia production facilities, and special warm rooms for temperature-sensitive products.

Along with industrial chemicals, Univar services the Food, Pharmaceutical and Personal Care industries representing the leading manufacturers of specialty and platform ingredients.

In addition to chemical distribution, Univar also specializes in the safe and efficient handling of both hazardous and non-hazardous waste through our ChemCare waste disposal service offering a full spectrum of waste recycling and disposal alternatives meeting our customers' environmental goals.

Safety is our first priority, the most important aspect of our work. We are committed to protecting the health and well-being of our employees, our customers, and the community and the environment. Univar USA's Quality Policy states that we are committed to the success of our customers and supplier/partners by providing value-added products and services that consistently meet requirements. In the spirit of innovation, management encourages full employee participation in the continuous review and improvement of Univar's business processes and its total quality process.



(left to right) Jack Healy, UMaine Pulp and Paper Foundation; Tony Lampron and Gene Anderson, Univar, and Jerry LeClair, NewPage



PPSA Overseas (PPSA OV) is the exclusive distributor to North America for Brazilian kaolin clays produced by related companies CADAM and PPSA. These companies are the largest producers and exporters of coating kaolin for paper and board from Brazil and one of the world's major suppliers.

In July 2005, PPSA OV initiated its activities in the USA, opening a new kaolin terminal in Searsport, Maine, to unload and distribute clay to the paper industry in the Northeastern region of the United States and Eastern Canada-Kaolin Importation Terminal - Searsport, ME - USA.

- Strategic geographic location, a dedicated operation for loading and unloading kaolin;
- Multimodal Terminal - roadway, railroad and maritime (barge) modals: integrated and totally automated logistics solutions for the discharging, storage and loading operation, preserving the product's quality until the final customer;
- Loading is executed in a closed, acclimatized area which include laboratories and administrative offices;
- Planned in modules, the terminal provides the capability of new expansion.

The products from CADAM and PPSA are concentrated in the CWF and CWC paper segments. These superior quality kaolins exhibit excellent runnability and printability characteristics. In particular, their gloss, brightness and rheological attributes help to add real value to the end product. Continuous product development is expanding the product range and helping to meet the ever increasing demands of the markets.

Our structure includes specialized researchers, pigment and paper laboratories, a pilot-plant in Brazil and abroad, as well as partnerships with research centers and universities. The research laboratories continuously work to develop future solutions to meet the needs of the evolving paper industry.

Customer support is ensured by local experienced professionals as well as laboratories in the markets where the company operates.

PPSA OV has an operational office in Searsport, ME and sales office in New York City.



(left to right) John Wolanski, Safe Handling; Jack Healy, UMaine Pulp and Paper Foundation; and Edson Ferreira, PPSA Overseas.

Return Service Requested

2008 “Consider Engineering” Summer Camp Dates Announced - Program Brochures and Applications Available Now

The 2008 “Consider Engineering” Summer Camp applications have been distributed to high school guidance personnel and math and science teachers. Brochures have also been sent to participants of last summer’s program with a letter from Foundation Executive Director, Jack Healy, asking students to recommend the program to their friends.

Planning for the 2008 camp is underway with the program scheduled to be offered in two four-day sessions - July 13-16th and July 20 - 23rd. Distribution and numbers of brochures mailed to students and teachers has been increased significantly, with the plan of receiving enough additional applications to expand Consider Engineering by offering two additional sessions. This would allow us to increase students’ participation from the traditional 60 to 120 students in 2008. “Historically the Consider Engineering program is our most successful recruiting tool. We are planning additional sessions so we can recruit the best students we can find to study engineering at UMaine, the kind of students our company members tell us they want to hire”, said Jack.

The Consider Engineering program offers students the opportunity to spend four days on the UMaine campus learning about the opportunities and disciplines available in engineering. Stu-

dents will live in a college dorm, eat in dining facilities and experience life as a college student.

The program offers challenging, educational and fun events from early in the morning until late into the evening. Engineering faculty and current students serve as coaches helping students conduct laboratory experiments utilizing computers and engineering principles.

A yearly highlight of the program is the “I AM an Engineer” game where students work in groups to solve engineering related problems by applying their high school math and science studies.

Admission to the program is highly competitive. Students invited to attend are among the best at their schools and have completed a three-year college prep sequence in both math and science. Successful applicants also should demonstrate a well-rounded high school experience by participating in extra-curricular or community activities as well as possessing excellent communication and leadership skills.

Applications are available for download on the Foundation’s website at www.maineulpaper.org or you can request applications by calling (207) 581-2297 or sending email to Faye Woodcock Murray at woodcock@maine.edu. The deadline for submitting an application is May 1, 2008. Invitations to attend Consider Engineering will be extended to students before May 31, 2008.



Students made and tested handsheets at the 2007 “Consider Engineering” summer program.

The UMaine Pulp & Paper Foundation Newsletter is published two times a year by The University of Maine Pulp & Paper Foundation, 5737 Jenness Hall, Orono, ME 04469. Jack Healy, Executive Director, Faye Woodcock Murray, Editor.