

Paper Discovery Center



All Things Paper

VOLUME 6, ISSUE 3

MAY—JUNE 2009

UPCOMING EVENTS

Summer Science Series
Sponsored by SCA Tissue

June 17-20 Forces

June 24-27 Color

July 15-18 Paper Testing

July 22-25 Flying Objects

Aug. 19-22 Thermal Energy

Aug. 26-29 Water

Dard Hunter Exhibit
extended until the end of July



Earth Day 2009!



Our visitors had a great time during the Paper Discovery Center's second annual Earth Day Celebration on Saturday, April 25. They made seed paper flowers, crimp art from old newspapers, and origami tulips. They also had fun playing games led by Fox River Academy. Many adventurous ones, donned a harness, and muscled up to touch the rafters, in a simulated tree climbing activity led by the Appleton Parks and Rec foresters. Visitors learned about trees in our urban forest from a DNR Arborist, and took pride as Mayor Hanna described Appleton's many 'green' initiatives. So can you identify



the LED street lights being tested on College Ave? Another valuable lesson for many was learning how to make a rain collection barrel. It was an action packed, fun-filled, educational day.

The day was kicked off with a workshop to prepare scouts for their Boy Scout Environmental Science Merit badge. As well as reviewing the key vocabulary needed for this badge, the scouts coated their hand made recycled paper with dissolved starch packing peanuts, built a watershed model which explored runoff pollution, and discussed an acid rain experiment.



Summer Science Series sponsored by SCA Tissue

Last year's summer science series was a great success. Visitors loved the fun hands-on activities, as well as the knowledgeable and friendly staff and volunteers. The event exceeded their expectations!

This year's science series will be even better. Thanks to the generosity of SCA Tissue, the extra science activities will be included in regular admission price—truly an awesome deal! Children can get the experiences of a science camp, but at a very affordable price and a flexible schedule. Just visit us any day of as many of the following weeks as you choose. The activities will be available during our open hours, 10 am—4 pm. There will be written instructions and explanations so visitors can do the activities by themselves at their own pace, and there will also be staff and volunteers on the floor willing to share more details about the science concepts or answer your questions. Additionally, demonstrations and games will be repeated and rotated throughout the day.



Bend a stream of water with static electricity.

Test paper strength!



June 17-20 Forces
June 24-27 Color
July 15-18 Paper Testing
July 22-25 Flying Objects
Aug. 19-22 Thermal Energy
Aug. 26-29 Water

Freeze a flower with liquid Nitrogen and smash it like glass.

Launch a projectile with a paper trebuchet.

Use paper chromatography to solve a crime

Spring—A Busy Time for Field Trips

In March, April and May the Paper Discovery Center averaged 15 school groups per month, which means that we hosted a group nearly every day! Feedback about our field trips continues to be extremely positive, and word of mouth testimonials grow attendance annually. Almost 4,000 students visited in 2008. Here are a few teacher comments:

We have come on field trips the past 2 years. Paper making is part of our curriculum and we plan the trip towards the end of our unit. This has been an excellent field trip to tie everything together. We have been very pleased with everyone there.

Suzanne Vosters-Kindergarten teacher-Houdini Elementary, AASD

I would like to extend my sincere thanks to the whole crew at our Paper Discovery Center! They consistently provide my fourth graders with a wide variety of valuable experiences when we visit on our annual field trip. My students are totally engaged from the moment we arrive at the center. We take part in paper making, paper history activities, science lessons, and more! I can honestly say that no one works harder to provide a “just right” experience than the group at the Paper Discovery Center.

Joan Moeschberger - Johnston Elementary School, AASD



The May 2009 National Science Teachers' Association newsletter reminded teachers about the value of informal education such as museums, science centers, and zoos. Among the benefits touted: a rich, social learning environment, an enhancing, hands-on approach, long term memories, positive youth development in confidence and skills, exposure to venues for life-long learning, and increased awareness about career options and mentors. These benefits are not limited to science, but extend to all subjects. A field trip to the Paper Discovery Center provides an interdisciplinary learning experience—touching on science, social studies, and art.

Kimberly-Clark Corporation pledges to support Field Trips

Despite the benefits of informal education experiences, the price can often be a hurdle for schools. The costs for the Paper Discovery Center to provide fieldtrips far exceeds the price we charge, \$3 per student. To enable the Paper Discovery Center to maintain a high level of quality at an affordable price, Kimberly-Clark Corporation has pledged to donate funds over the next three years to support field trips. Many thanks to KC for their generosity and support!

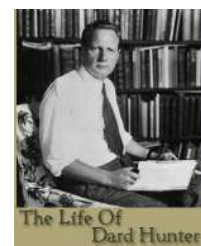
Dard Hunter III - Evening Learning Event

The mission of the Paper Discovery Center is to “Celebrate All Things Paper—the Wonder and the Legacy”. The word ‘legacy’ was exemplified in all its magnificence during the presentation of Dard Hunter III, about his grandfather, the talented and dedicated paper artist, historian, and book maker. As old family photos and stories were told, hearts were opened to the passions of Dard Hunter, particularly his quest to preserve hand made paper as an art form.

William Joseph Hunter adopted the nickname ‘Dard’, when his older brother, Phillip, mispronounced “Darling”. As young adults, Phillip and Dard performed together in a successful traveling magic show. Phillip was the wizard, while one of Dard’s roles was the ‘chalk talker’ between acts, drawing pictures and sharing commentary. This allowed Dard to use his artistic talents, honed as a graphic artist for his father’s newspaper company, and further developed later as a member of the art & craft community, Roycroft colony in New York.

The stories continued throughout the presentation. As the grandson unraveled the tales, the audience became awestruck by the dedication of Dard Hunter. Imagine taking years to completely handcraft a book, including designing and pouring the type letter moulds for hand printing the book on hand made paper.

This presentation kicked off a Dard Hunter exhibit, which showcases some of his books, artworks, family photos, and hand papermaking equipment. This exhibit has been extended until the end of this summer. This presentation was also part of the Fox Cities Book Festival and was the last in the PDC Evening Learning Series. Next winter we will once again host this program, please feel free to suggest topics of interest.



Volunteer Appreciation Week—Hydro Power Plant Tour

Visitors are always drawn to the river when looking out the many windows in the Paper Discovery Center. The view and allure certainly help solidify the historical lesson of how important the Fox River has been to our local economy and the development of the paper industry in this area. Inevitably, people wonder about what's across the river, including the WE Energies Hydro-electric power plant.

A volunteer tour was a great way to get the answers and now we can share the stories with our visitors. The hydro plant generates about 3% of Appleton's power grid, which is about enough to illuminate the downtown street lights. Amazingly, just one of the wind mills which are appearing on our landscape also produces this much energy. The river drops about 14 feet at the facility, and the moving water spins 2 turbines which generate the electricity. This Appleton facility, constructed in 1901, is one of 13 hydro-electric power plants operated by WE Energies, and has maximum generation of 2000 kilowatts.



Bruce Sasman of WE Energies talks about the turbines, magnetic fields and electricity.

Appleton touts the first ever hydro-electric power plant in the world, which was also on the Fox River and built in 1882. That site was initiated by paper mill manager H.F. Rogers, and opened just 24 days after the first Edison electric generator in New York, which used steam instead of water power.

Volunteers, staff, committees and board members took a tour of the hydro electric plant and gathered at the PDC for a dinner afterwards. The event took place about 1 week after National Volunteer Appreciation Week. The time and talents of our volunteers are critical to our success. Many thanks.



Harold Miller, a board member whose career was spent with Marathon Engineering, can't help but go in for a closer look.

In Memoriam: Richard Pratt 1934 – 2009 Paper Industry International Hall of Fame Inductee 2002

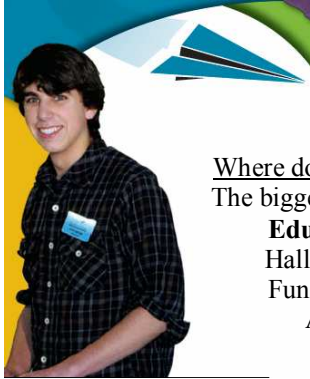
A 2002 Inductee into the Paper Industry International Hall of Fame for Entrepreneurship and Leadership died recently in Kew, Australia. Richard Pratt led Visy Industry for the past 40 years bringing it from a small factory to a multinational, packaging and recycling company employing more than 8500 people.

Richard Pratt was born in 1934 in Poland, but emigrated with his family to Australia in 1938. Mr. Pratt studied commerce at the University of Melbourne. He played football for the Carlton Juniors and had a brief theater career in London before taking over the company after his father's death in 1969.

Not only did Mr. Pratt increase the company worth from A\$5 million in 1969 to A\$3 billion in 2002, he also became a leader in waste reclamation. He opened his first paper recycling mill in 1979 and by 1997, he had opened the world's most advanced recycling facility in Staten Island, New York. Visy recycles more than 1.2 million tons of paper per year in the United States and Australia.

Over his lifetime, Mr. Pratt showed great generosity to many community projects and in 1998, he was awarded the AC, Companion of the Order of Australia (Australia's highest honor.)

Mr. Pratt died at home after a three year battle with cancer. He is survived by Jeanne, his wife of over 50 years and three adult children.



How to show your support for the Paper Discovery Center

Help spread the word about our facility, our programs, and our events. Consider volunteering your time and/or talents. Donate goods—paper, office supplies, technology equipment, etc. Provide much needed financial and philanthropic support, including:

Where do your donations go?

The biggest piece of the pie is

Education = 67%.
Hall of fame = 19%
Fundraising = 10%
Admin = 4%

- Purchase a Legacy Foundation Wall brick to commemorate a career in papermaking, or related industry. For brochure: http://www.paperdiscoverycenter.org/friends/legacy_wall_brochure.pdf
- Join our Family and Friends program. For brochure: <http://www.paperdiscoverycenter.org/friends/program.shtml>
- Sponsor a display area, a temporary exhibit, an event, a program, or even the building, including naming rights... for info, contact Dave at 920-380-7491 or Dave@PaperDiscoveryCenter.org

Growing Interest in Paper Legacy Foundation Wall



It hasn't even been a year since we first offered the opportunity to honor someone who has worked in the paper industry or related businesses. Already we have a dozen people who are being memorialized with a bronze plaque on our Legacy Foundation Wall. This includes a recent retiree, Ed Grys, whom Little Rapids Corporation honored with this gift to recognize his many contributions and years of service.

The cost of a brick is \$1000 with tax deductible benefits. It can optionally be paid over a 4 year period. An order form can be picked up at the Paper Discovery Center or downloaded from our website (family & friends menu option) - http://www.paperdiscoverycenter.org/friends/legacy_wall_brochure.pdf

Membership in the Association of Science and Technology Centers (ASTC) Reaps many Rewards



As time goes on, more and more out-of-town visitors step through our doors. Many have discovered us through the ASTC membership list (see <http://www.astc.org/members/passlist.htm>). Illinois folks with Museum of Science and Industry memberships, Milwaukee-ans who are members of the Discovery World, and others as far as Florida and Arizona, have planned their vacations to stop by 'sister' science centers where their memberships are honored and their fee is FREE. This in turn, brings tourists into our community - an unquestionable boost to the local economy and papermaker pride!

Although we do not collect funds from these travelers, the benefits are reciprocated when people join our Family & Friends program at the \geq \$100 value. They donate to the Paper Discovery Center and reap the rewards of free admission to other ASTC member locations. On a trip to Maryland a few weeks ago, Barb Sauer, a PDC staff member, went to The Great Lakes Science Center in Cleveland—right next to the Rock 'n Roll Hall of Fame. It was an awesome, free, way to break up the long return drive to Wisconsin.

Another benefit to the ASTC membership is the resources available to our staff for improving our exhibits, programs, and operations. This includes website articles, newsletter updates, conferences, and more.



Tough Times for Innovators: What Can We Learn from Hall of Fame Inductees?

Alan Button shared the story of five Paper Industry International Hall of Famers during a recent TAPPI conference. Dave Lee and Harry Spiegelberg also contributed to the presentation. Although our hall of fame has many great innovators who persevered through tough times, the highlighted inductees were: Ernst Mahler, Margaret Knight, Lawrence Stanford, W. Howard Rapson, and Darwin E Smith. Below are some points from the stories of Ernst Mahler and Margaret Knight.

The year Ernst Mahler began his career at Kimberly-Clark Corporation, 1914, the first World War started. The year he helped found the Institute of Paper Chemistry, 1929, the global economic downturn of the Great Depression started. During an era when many could only think doom and gloom, Ernst Mahler was breaking new ground—establishing an R&D center, and developing the 1st crepe wadding, the 1st refiner ground wood pulp, and the 1st Crescent former for tissue-making.

While Ernst Mahler’s story and timeline parallel global challenges, Margaret Knight’s life story (1838—1914) is one of persevering through personal difficulties. She was raised by a widowed mother who struggled against poverty. Opportunities of the industrial revolution forced the family to relocate from the Maine countryside to the city in New Hampshire. She grew up in a time when society restricted the roles, and belittled the brains, of women. Yet, Mattie, overcame all the struggles and made marvelous contributions, including: invented a machine for the flat-bottomed bag and became one of the first women to hold a patent, co-founded the Eastern Paper Bag Company, and was granted 26 patents in diverse industries.

The Paper Industry International Hall of Fame honors the contributions of great people in the industry, but more importantly, there is a place to share these stories. The Paper Discovery Center houses a kiosk where visitors can explore the lives and accomplishments of the Hall of Fame Inductees. This enables the innovators to be role models and legends that can come alive in the hearts of our visitors.

What’s New Outside at the Paper Discovery Center?



With help from CR Meyers, volunteers, Bob & Roger, install a pulp grinding stone, given to us by New Page.



The Outdoor Learning Center has a new entryway and kiosk, soon to adorn educational information about trees and forestry.

The Paper Discovery Center—on the road with Outreach



Exploring surface area effects of the nano-scale

This spring the Paper Discovery Center staff had a number of opportunities to bolster science learning and enthusiasm within the community. Young and old alike, had fun testing paper strength, solving a crime with paper chromatography, and unveiling hidden messages at a hands-on Paper Discovery Center booth during two science fairs for the Kimberly and Menasha school districts.

Additionally, the Paper Discovery Center participated in Nano-days, an event sponsored by a NISE (Nano Informal Science Education) Network grant. A series of labs and videos about nano-technology were shared with Appleton East Chemistry students.



Interested by Ferro-fluid nano-particles



Paper Discovery Center
HOME OF THE PAPER INDUSTRY INTERNATIONAL HALL OF FAME

425 West Water Street
Appleton, WI 54911

Donation Match Program—March 1st to April 30th

Paper Discovery Center Donor Pledge Card

Name (List individual & organization) _____ Phone _____

Mailing Address _____ Email _____

I Would Like to Make a Contribution —

Single: \$100 \$250 \$500 \$1000 \$2500 \$5000 Other _____

Multi-Year: I/We pledge a gift of \$_____ over a period of ___ years in support of the Paper Discovery Center and the many families and children it will serve through education and discovery.

Amount Enclosed: \$_____ Balance Due: \$_____ Please make check payable to: Paper Discovery Center

I/We would like to donate a gift of securities* to the Paper Discovery Center. I/We pledge _____ shares of

(name of security)

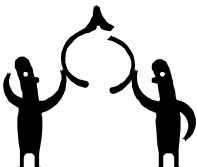
Thank You For Your Support At This Important Time For Our Organization.

Ask your employer about matching funds programs!

Mail this card along with payment to: Paper Discovery Center, 425 W. Water Street, Appleton, WI 54911.

*Contact our office at 920-380-7491 for transfer instructions or with any questions.

Gifts are tax deductible to the extent provided by law.



Many non-profit organizations are challenged by the downturn in our economy. If you can find it within your means, please consider a donation. Now it is more important than ever. Help us continue the great work we are doing!

Phone: 920-380-7491
Fax: 920-731-2704
www.paperdiscoverycenter.org

**Celebrating All Things Paper -
the Wonder and the Legacy**