P2AD

from the
source

Spring 2003
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A Publication of the Georgia Pollution Prevention Assistance Division

Judy Adler and Gary Brown inspect the new pea cooling equipment. Eliminating once-through cooling water for this equipment will save roughly 800,000 gallons of water per year.

Georgia Environmental Partnership Success

Reidsville State Prison cuts annual water use by 25 million gallons

by Judy Adler, P.E., Pollution Prevention Engineer, and Karen Porter, EDI

Thanks to assistance from the Georgia Environmental Partnership (GEP) and a committed team of Georgia Department of Corrections (GDC) employees, millions of gallons of water are being saved at a GDC vegetable canning plant in Reidsville and there is less demand on southeast Georgia's threatened primary water source.

The plant withdraws water for operations from the Upper Floridan Aquifer, a large groundwater source that is currently stressed by the many demands of municipal, industrial and agricultural users in Georgia. Over-pumping of this aquifer threatens to allow saltwater to enter this valuable source along the Georgia coast, rendering it unusable for part of the state. By developing a comprehensive water efficiency program, the plant has reduced peak daily water use by 57 percent, reducing demand on the aquifer.

The GDC facilities in Reidsville include two prisons housing over 2,500 inmates, family housing for prison employees, and the vegetable

See Corrections, *page 8*

EarthCraft builder named *2003 Builder of the Year* by top industry magazine

Hedgewood Properties a leader in the EarthCraft House program

by Susan Hooper, Pollution Prevention Specialist

It's obvious that Pam Sessions believes in the homes she builds, so much so that one of her newest developments – Vickery in Forsyth County – will surround the home she shares with her husband and business partner, Don Donnelly.

Ms. Sessions, president of Hedgewood Properties, Inc., was vice president of the Greater Atlanta Home Builders Association when the organization began looking into smart growth and green building. When she was chosen to lead the association, Ms. Sessions said she decided to make

See Hedgewood, *page 11*

New construction at Hedgewood's new EarthCraft Vickery development

inside

DIRECTOR'S COLUMN

by G. Robert Kerr

Spring is quickly fading into summer and as we all dry out from our unusually soggy May, some of you might be wondering why the state is asking for continued voluntary water conservation. We at P²AD believe that conservation is a logical (and relatively painless) way to reduce waste and save money in times of drought as well as times of deluge, and consider it part of day-to-day business – not crisis management.

In this, our first completely online issue, we highlight the success a current P²AD client has had integrating water conservation into its daily business operations – saving millions of gallons of water and hundreds of thousands of dollars a year. The water efficiency measures implemented by the Department of Corrections at the Georgia State Prison in Reidsville are also saving energy associated with heating and pumping water – an often overlooked but significant benefit of water conservation. Conserving energy means reducing fossil fuel emissions, which helps us all as smog season begins in Atlanta and other Georgia cities face poorer air quality this year.

If you have read P²AD publications in the past, you are probably aware that the Division is involved in radon education. Perhaps you know that the presence of radon gas in homes is a cause for concern, but you really don't understand why or how this concern is addressed. Our Radon Primer on page six of this issue gives you the basics.

Finally, this quarter we take the opportunity to brag on the success of our ScrapMatch program over the past year. On page four you'll learn how this Georgia Environmental Partnership tool is helping Georgia businesses see their waste streams as other's feedstocks. Why pay to throw materials in the landfill when you could break even or come out ahead by having your waste used as a raw material by another business? It's just plain common sense.

As always, we hope that these stories showcasing progressive businesses and institutions in Georgia will inspire your organization to reach higher in its efforts to reduce waste and use natural resources efficiently. Please let us know how we can help or if you can help others by sharing a success story of your own.

P²AD from the source

A Publication of the Georgia Pollution Prevention Assistance Division

From the Source is a quarterly publication of the Pollution Prevention Assistance Division (P²AD) of the Georgia Department of Natural Resources (DNR). P²AD provides free, confidential technical assistance in the areas of pollution prevention, resource conservation, waste reduction, by-product reuse, and recycling. Our clients include manufacturers, commercial businesses, institutions, military and government facilities, agricultural operations, consultants, and the citizens of Georgia.

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For more information about P²AD's services, contact the Division at (404) 651-5120, (800) 685-2443 (outside Atlanta), or via email at info@p2ad.org.

Editor: Suzanne Burnes
Technical Reviewers: Chuck Boelkins, Bob Donaghue, Susan Hooper, and Iva Walls

Building Authority recycles 4.5 tons of carpet waste

Project shows agency's continued commitment to solid waste diversion

by Suzanne Burnes, Pollution Prevention Specialist, and Alec Smith, GBA

Last spring, P²AD reported on an exciting building material recycling project undertaken by the Georgia Building Authority (GBA). Following the successful recycling of more than 7,000 square feet of ceiling tiles, GBA Project Manager Alec Smith said he would not be sending large quantities of tile to the landfill again. This winter, Mr. Smith expanded on that commitment by diverting from Georgia landfills 4.5 tons of carpet waste generated by GBA .

The Renovation

The full-floor renovation of the Law Department, in the 254 Washington Street building in Atlanta, began last fall. Carpeting from one floor of the building was worn and needed replacing. Difficulty in removing the carpet adhesive required the 1,800 square yards of carpet be cut into small strips for removal. Though the intention of contractors RFJ Construction Inc. and DLP Construction Inc. was to take the 4.5 tons of carpet to the landfill, Project Managers Rayford Fontenot and Cougar Cirillo agreed to store it in a vacant space in an adjacent building instead. They were both pleased to do the "green" thing when presented with a "no-cost to job" option. Having worked with P²AD on other recycling efforts, Mr. Smith believed the material might be recyclable, and began pursuing recycling prospects.

C&A's Bill Boyd loading GBA carpet waste for shipment to C&A for recycling.

The Recycling Partnership

GBA determined that Collins & Aikman (C&A) was the original manufacturer of the carpet, and contacted them about recycling the stockpiled material. C&A was eager to cooperate with recycling efforts. "The whole thing really started rolling at Greenprints," said Mr. Smith, who began a conversation about carpet recycling with C&A representatives during last year's green building conference and tradeshow.

With the issue of storage space resolved, GBA and C&A began to address the challenge of packaging the waste carpet for transport. C&A's solution was to reuse large boxes that had originally delivered raw materials to their facilities. These boxes arrived at the GBA building on pallets, and the boxes were filled with loose carpet. The loading process required some creative logistics involving forklifts and pallet jacks, but the carpet was finally loaded and shipped for recycling. Mr. Smith noted some lessons learned to make the process more efficient — having the boxes and pallets onsite when the carpet was removed from the building could have saved much labor.

Stockpiled GBA carpet waste awaiting shipment for recycling.

Mr. Smith had nothing but praise for his partners. "This project could not have been completed without the cooperation and assistance of Cougar Cirillo of DLP Construction, Rayford Fontenot of RFJ Construction, Inc., John Sumlin and Russell Bennett of Powerbond, and the office and shipping staff of C&A," he added.

A New Way of Renovating

While some additional labor was required for this project, $150 in landfill cost was avoided, and the project was a great learning experience for the agency. Later this year, GBA anticipates renovating three additional floors in the same building. Mr. Smith looks forward to the opportunity to refine the carpet removal and recycling process, and make this a standard operating procedure for the GBA renovations he manages.

For more information on GBA's construction waste recycling initiatives, contact Alec Smith at Alec.Smith@gw.gba.state.ga.us.

CHUCK'S CORNER

ScrapMatchGA diverting solid waste & saving companies $$$

by Chuck Boelkins, Resource Recovery Specialist

Almost two years ago, I used this column to introduce an exciting new project developed with Georgia Tech's Economic Development Institute (EDI), called ScrapMatchGA. The new project was designed to help companies located near each other recover and reuse some of their waste materials, with the goals of increasing competitiveness of Georgia businesses, reducing waste going to our landfills, and promoting sustainable use of our natural resources.

Matched Wastes

- **Mixed paper** - 6 companies, 30,000 cubic yards diverted from landfills
- **Plastic drums** - 1 company no longer landfills 50 drums/year
- **Polystyrene** - 1 company, 100 pounds per month diverted
- **Wood waste** - 41 companies are in the program, saving $34,420 in tipping fees to date
- **Scrap pallets** - 6 companies have saved $112,000
- **Sawdust** - 17 companies, $83,080

Participation in ScrapMatchGA is solicited through P²AD's website and in response to assistance requests, and is free, voluntary and confidential. ScrapMatchGA is unique to the scores of "waste/materials exchanges" on the Internet in that it focuses on matching small quantities of materials with users in the same geographic region. Now that the system is fully up and running, it's time to share some successes.

Currently, more than 400 companies with around 530 waste streams are listed in the ScrapMatchGA database. Since October 2002, 124 companies have been a part of successful matches made through the program.

Examples of successful matches include:

- **Mulherin Lumber** in Augusta is now recycling scrap pallets with a company that rebuilds some and converts others to boiler fuel - $23,000/yr savings for 24 trailer loads of pallets.
- **Carrol Fabrics** in Augusta recycles about a trailer load of corrugated boxes per week.
- **Sunnyland Farms** near Albany found uses for 40,000 pounds of pecan shells per week for eight months of the year.
- **Moultrie Postform** is now sending their scrap wood to Columbus and Unadilla for use as boiler fuel rather than burning it on site.
- **Easter Seals** in Augusta was looking for packing peanuts. By putting its director in contact with a representative from DSM Chemicals, ScrapMatchGA found a win-win situation: DSM will now be shipping Easter Seals its scrap packing peanuts, which would otherwise have been landfilled.

Before you arrange for your next solid waste pickup that is destined for a landfill, think of ScrapMatchGA. If your waste could be usable as a feedstock for another business, why not take advantage of this win-win?

Contact me at (404) 651-5585 or chuck_boelkins@p2ad.org, or go to www.p2ad.org to participate.

Remember my mantra…

Waste is a Resource in the Wrong Place!

Are you watching your company's *waste*line?

by Stephanie Busch, Program Manager

If you are interested in looking for ways to reduce disposal costs, consider joining the 34 Georgia businesses and institutions that are already taking advantage of EPA's WasteWise program.

What is WasteWise?

WasteWise is a free, voluntary EPA program that encourages its members to design programs that reduce solid waste. Some common targeted items are copy paper, newspaper, plastic bottles, electronic equipment, aluminum cans, glass, and corrugated packaging. It does not include hazardous, liquid, or specially regulated waste.

To participate in the WasteWise program, partners set goals in three areas: waste prevention, recycling collection, and buying or manufacturing recycled-content products. All you need to do is track the results of your efforts and report your progress to WasteWise once a year.

Why is P²AD So Excited About WasteWise?

Like you, P²AD is committed to preserving the environment and is glad to support programs like WasteWise, that simultaneously improve environmental and financial performance. Waste reduction can be a challenge, and both P²AD and WasteWise offer technical assistance to help you achieve your goals. The program is flexible, recognizing that you know your organization's needs best and allowing you to set your own waste reduction goals.

The WasteWise annual awards program is also a great way to gain national recognition for your hard work. P²AD is currently aligning its new recognition program with WasteWise. This will reduce the amount of paperwork companies must complete to apply for recognition at both the state and national levels.

During 2002, P²AD staff worked to educate Georgia businesses, industries and institutions on the benefits of WasteWise during presentations to groups around the state. P²AD focused primarily on the health care and education sectors in 2002.

Georgia WasteWise Partner Spotlight

*The Seydel Companies, a chemicals manufacturer in Pendergrass with 109 employees, saved almost **$500,000** in 2000 by reusing viable materials, donating materials it couldn't use, and returning packaging to its vendors.*

What Benefits and Assistance Does EPA Provide?

To assist partners, WasteWise provides access to a wealth of free technical assistance designed to help you develop and implement waste reduction activities (see box below).

Remember, P²AD staff can also assist you in setting up your waste reduction program or becoming a WasteWise member.

What Assistance Will EPA Provide?

- **Toll-free helpline** staffed by information specialists who can answer your program and technical questions.
- WasteWise representatives who provide **individual assistance** to help you design a successful waste reduction program.
- **Partner networking**, through a listserv and regional meetings, lets you share accomplishments and address challenges with other partners.
- **Awards and recognition** for successful waste reduction efforts through events, press releases, EPA publications, and an annual awards program.
- Publications such as the ***WasteWise Toolkit, WasteWise Bulletin,*** and ***WasteWise Update*** offer program guidance, feature partner success stories, and cover specialized topic areas.
- **Satellite forums** offer viewers the opportunity to learn about money-saving waste reduction strategies from their peers and participate in the call-in portion of the program.

How Do I Join?

Joining WasteWise is easy! Simply complete a registration form online at www.epa.gov/wastewise, or contact the WasteWise Helpline at (800) EPA-WISE (372-9473) to request a copy of the form. Once you register, WasteWise will send you information and resources designed to help you assess your facility's waste, identify and submit WasteWise goals, and measure your progress.

To learn more about WasteWise, visit the website www.epa.gov/wastewise or www.p2ad.org.

EPA awards P²AD $250,000 for Radon Program

Division offers grants to local governments, establishes partnership with UGA

by Marci De Sart, Pollution Prevention Specialist

Invisible and odorless, radon gas could be accumulating in your crawlspace or basement right now. If undetected, radon – a product of radium decay that forms a cancer-causing gas – can seep into your living space. When this happens, the trapped radon can become concentrated, creating a health hazard. According to the U. S. Surgeon General, radon is the second leading cause of lung cancer deaths each year in the U. S.

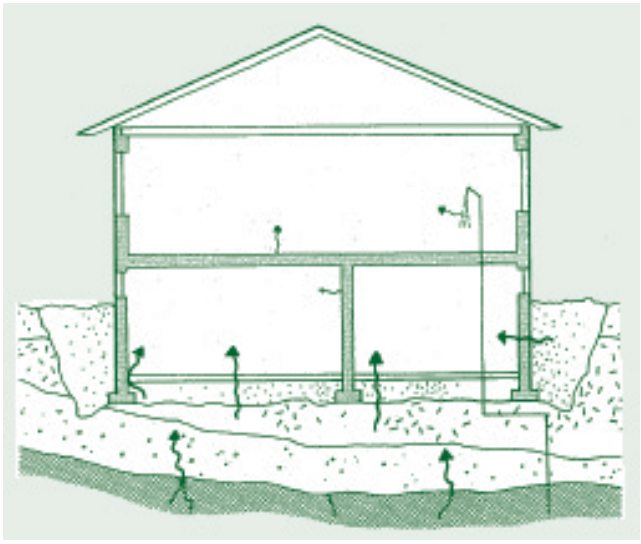
For the past several years, P²AD has worked to raise awareness about radon and encourage testing with the financial support of the U. S. Environmental Protection Agency (EPA). This year, EPA funding more than doubled, allowing P²AD to hire a full time radon coordinator, expand its grant program, and establish a partnership with the University of Georgia to bring their expertise and outreach capabilities to the program.

What is Radon?

Radon is a radioactive gas produced by the spontaneous breakdown of radium, which is formed as uranium decays. Radon is naturally present in rock, soil, and water, and levels of the gas vary from place to place. As it decays or breaks down, radon forms radioactive by-products referred to as progeny or daughters, decay products that, if inhaled, can damage lung tissue and cause lung cancer. Often undetected, radon can accumulate to high levels inside homes, and the National Academy of Sciences estimates that long-term exposure to it causes between 15,000 and 22,000 deaths from lung cancer annually in the U. S.

Regulatory History

In response to increasing national concern over the threat of radon gas and its by-products, the U.S. Congress enacted the Indoor Radon Abatement Act (IRAA) as an amendment to the Toxic Substances Control Act in October 1988. The IRAA contains numerous provisions to address the long-term goal of rendering the air inside buildings as free of radon as the ambient air outside of buildings. One of these provisions authorizes the EPA to provide grants to the states to support the development and implementation of programs to assess and mitigate indoor radon.



Radon enters the home through the foundation

The State Indoor Radon Grant (SIRG) program is a federal initiative developed out of the IRAA to address the threat of radon. The SIRG program provides seed money to initiate and improve state initiatives that minimize radon's threat to human health. P²AD received its first SIRG matching grant for $100,000 from EPA in 1996, and has continued to be awarded this amount through 2002.

These funds, combined with P²AD's matching funds, have helped establish many effective outreach programs and partnerships designed to explain the threats posed by radon and encourage radon testing. For fiscal year 2003, P²AD received a $250,000 matching SIRG grant.

In an effort to reach a wider audience with information on radon awareness, measurement, and mitigation, P²AD has contracted with Southface Energy Institute and the University of Georgia. Through the expansion of its partnerships, P²AD is able to leverage its EPA funding to maximize the program benefits for the state.

P²AD has also established the Radon Grant Program, a one-to-one matching grant to help local governments and community-based organizations increase public awareness of the potential health threats associated with radon exposure and encourage radon testing.

For more information on P²AD's Radon Program, contact Marci De Sart at (404) 657-5204, or marci_desart@p2ad.org. Visit www.p2ad.org/radon, www.epa.gov/iaq/radon, www.southface.org, or www.fcs.uga.edu/extension/housing, for other radon information.

Sweetwater Creek State Conservation Park
Visitor Center
Lithia Springs, GA

Sweetwater Creek to become a green state park

Latest LEED™-registered project continues state commitment to sustainable construction

by Suzanne Burnes, Pollution Prevention Specialist, and Dan Gerding, AIA, Gerding Architects, LLC

The Georgia State Parks and Historic Sites Division has become a leader in sustainable design and construction in Georgia, with their third Leadership in Energy and Environmental Design (LEED™) project currently underway. The Sweetwater Creek State Conservation Park Visitor Center is the latest park facility to become a model for green design and construction.

Located in the historic Sweetwater Creek State Conservation Park, the new LEED™-certified Visitor Center and Museum will serve as a gateway to the park trails and the historic New Manchester Manufacturing Company mill ruins. The building's design integrates site topography, climate and solar orientation. The structure includes exhibit areas, retail, administrative offices, an audio-visual room, multi-purpose rooms, a water quality lab/ classroom, and restrooms.

Green Building Design Process

Design meetings held in October 2002, facilitated by Gerding Architects, LLC, marked the beginning of the green building design process for the Sweetwater Creek Visitor Center. Green design is as much about the "process" as it is the "product." A team approach between all project stakeholders – owner, owner's partners, design team, contractor, suppliers and manufacturers – is fundamental to high performance buildings. Without this approach, also known as Integrated Design, the synergistic benefits of green strategies will not be fully realized.

The US Green Building Council's LEED™ rating system provides an excellent framework for the Integrated Design process and assists in early consensus building and later execution. The Sweetwater Creek project team is pursuing either a LEED™ "Silver" or "Gold" rating.

The completed Visitor Center will be approximately 12,000 square feet in surface area. Design and construction costs are anticipated to total $2,250,000. Design fees can be higher for a green building due to the intensive research and coordination required to successfully design a high performance building.

> *"Eco-effective buildings that save water, materials and energy, while providing superior interior environments that promote occupant comfort and productivity, are by-products of good design."*
>
> – Dan Gerding, AIA

However, the payback to the owner for this modest investment can be substantial in the form of lower operating and maintenance costs, increased occupant productivity, improved occupant health, and conservation of resources.

Building Highlights

The Sweetwater Creek Visitor Center will integrate a number of cutting-edge design elements, perhaps the most notable being the orientation of the building into the side of a hill and landscaping 37%

See* Sweetwater Creek, *page 10

Corrections, ***continued from page 1***

canning plant. As many as 130 inmates work each day at the vegetable processing facility, canning carrots, beans, peas, potatoes, squash and greens. These vegetables are cultivated on a 10,000-acre farm tended by inmates. The facilities also include a dairy and cattle operation, hog operation, and meat processing facility. Most of the vegetables, meats, eggs, and milk consumed by Georgia inmates are produced and processed by Georgia's prison farms.

A team of GEP engineers including Colin Kiefer and Judy Adler with P²AD, Mike Brown from Georgia Tech, and Bryan Graffagnini from the University of Georgia, worked closely with state prison employees from March through July of 2002 to identify water efficiency opportunities at the vegetable canning plant. Georgia Tech performed a detailed water audit of the facility using a portable ultrasonic flow meter. Through root cause analysis and brainstorming exercises, the team identified more than 20 water efficiency opportunities. To date, the prison has implemented the following water efficiency measures:

- Installation of flow meters, totalizers, and control valves to control and track water usage
- Counterflow rinsing system to reduce the amount of fresh water used to clean vegetables
- Elimination of one vegetable rinsing step
- Alternative cooling system to eliminate once-through cooling water
- Dry clean-up practices to reduce water use in equipment and floor cleaning.

Collectively, these measures reduce peak daily water use at the canning plant by 57%, a savings of approximately 25 million gallons per year.

How did Reidsville Prison Save So Much Water?

- Installation of flow meters, totalizers, and control valves to control and track water usage
- Counterflow rinsing system to reduce the amount of fresh water used to clean vegetables
- Elimination of one vegetable rinsing step
- Alternative cooling system to eliminate once-through cooling water
- Dry clean-up practices to reduce water use in equipment and floor cleaning.

Gary Brown, Maintenance Supervisor at the canning plant, planned, designed and built the counterflow rinsing system after initially presenting the idea at the brainstorming session for everyone's input. He said that the complete conservation project has enabled the prison to make substantial cuts in water usage and operating costs. "GEP was instrumental in giving us ideas and a game plan to help conserve water," Mr. Brown said. "Water conservation was not a priority here before then."

Kirk Mays, Chief Environmental Engineer for GDC, explained that the project was timely because the prison was close to exceeding the flow limit in its wastewater discharge permit.

"These ideas save dollars and energy all around," said Mays. "For instance, we're saving the cost of electricity used to pump water and costs to treat water that runs into the treatment plant. Also, we're in the process of carrying over and implementing the water conservation ideas we're using for the cannery plant at the prison's meat processing plant and dairy. We also plan to implement water conservation measures at the two prisons and family housing facilities."

An additional 35 million gallons of water per year could be saved at the prisons and family housing facilities through plumbing fixture retrofits, laundry and dishwasher water reuse systems, and replacing water-cooled ice machines with air-cooled models. These water efficiency efforts will not only help prevent saltwater from entering the aquifer, but will also reduce water and wastewater costs and save taxpayer dollars. The potential cost savings from the canning plant, prison, and family housing measures are approximately $300,000 per year

with a payback in less than two years.

Management commitment and employee participation were critical elements in the success of this water efficiency program. The involvement of field personnel, maintenance, and management from day one of the project led to buy-in and ownership of the chosen water efficiency measures. The success of this program has led to a long-term partnership between the GDC and GEP, with plans to implement water efficiency programs at other state prisons.

> *"GEP was instrumental in giving us ideas and a game plan to help conserve water...Water conservation was not a priority here before then."*
>
> – Gary Brown, GDC

The Georgia Environmental Partnership (GEP) includes the Pollution Prevention Assistance Division of the Georgia Department of Natural Resources, the Georgia Institute of Technology, and the University of Georgia. GEP provides free, confidential water efficiency assistance to manufacturers, government facilities, and commercial businesses throughout Georgia.

Judy Adler is an engineer with P²AD. Judy manages water efficiency programs at P²AD and oversees GEP's Environmental Management System (EMS) Assistance for GDC. Karen Porter is a writer with the coastal region office of Georgia Tech's Economic Development Institute in Savannah.

Metal Finishing Initiative Phase I Results

Metcam Advanced Metalworking Pilot Project

by Colin Kiefer, Pollution Prevention Engineer

Metcam Advanced Metalworking in Alpharetta has partnered with P²AD in a three-phased project that includes:

- Phase 1 - Ultrafiltration of an alkaline cleaner and in-process rinsewater reuse on a 5-stage iron phosphate washer
- Phase 2 - Elimination of hexavalent chrome on an aluminum immersion line
- Phase 3 - Implementation of an environmental management system and participation in P²AD's new recognition program

The Phase 1 technology evaluation, which is near completion, proved to be very successful. Metcam was spending over $53,000 per year to manage 82,500 gallons of wastewater from the Stage 1 alkaline cleaner and Stage 2 rinse on an iron phosphate spray washer system.

Without access to a sewer line, Metcam cannot overflow their rinse stages and thus the static 750-gallon Stage 2 rinse was being dumped twice a week. Paint adhesion and corrosion resistance quality issues were a concern with the buildup of oils in Stage 2 that are brought in with parts from Stage 1. To eliminate the problem and reduce operating costs, Metcam evaluated an ultrafiltration membrane system for the Stage 1 alkaline cleaner to remove the oils at the source, and a counterflowing system for in-process reuse of their Stage 2 rinse as makeup for Stage 1.

Pilot Project Highlights

- **Stage 2 rinse not dumped in over two months**
- **Improved process quality for entire 5-stage washer**
- **Cost savings from wastewater and chemical use reduction**

A final project report will be available this summer online at www.p2ad.org. Copies will also be available upon request.

For more information, please contact Colin Kiefer at (404) 651-5128 or via email at colin_kiefer@p2ad.org.

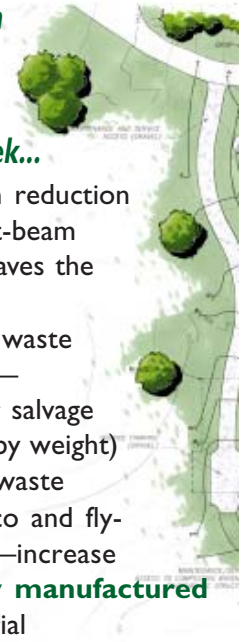
Sweetwater Creek, ***continued from page 7***

of the roof. These elements alone will reduce stormwater runoff from the site (the goal is no net increase in rate and quantity of stormwater), increase the energy efficiency of the structure by maximizing solar exposure (the goal is achieving a 20% reduction from the ASHRAE 90.1-1999 Standard), and reduce the heat island effect caused by dark roofs.

Additional features such as rainwater harvesting (through roof design), waterless urinals and composting toilets will allow the facility to eliminate the need for a sewer hookup and minimize potable water use. By careful planning in the design process, the facility will meet the operational needs of the Park without burdening the local water and sewer infrastructure. Construction of the Sweetwater Creek Visitor Center will occur in two phases. Construction of the first phase is expected to begin in the spring of 2004, followed by phase II at a time yet to be determined.

For more information on this project, contact Teresa Shiflett at (404) 657-7440 or teresa_shiflett@p2ad.org, or David Freedman at (404) 656-6531.

A few neat design & construction elements at Sweetwater Creek...



- Light pollution reduction —**zero** direct-beam illumination leaves the building site
- Construction waste management — recycle and/or salvage at least **75%** (by weight) construction waste
- Masonry stucco and fly-ash concrete—increase use of **locally manufactured** building material

Old computer equipment taking up space? Recycle it!

by Gloria Hardegree, Georgia Recycling Coalition

On Saturday, July 12, Georgia citizens will have an opportunity to free up some storage space and recycle their old computer related equipment. A one-day free recycling event will be held at the Alexander Memorial Coliseum parking lot on the Georgia Institute of Technology campus from 9 am to 3 pm. The coliseum is located on 10th Street off the I-75/85 Connector in downtown Atlanta.

Citizens are encouraged to bring any brand of old computer related equipment—computers, computer monitors, keyboards, mice, printers, or other peripherals to the site for collection and recycling by Dell. There will be no charge to the public for drop-off of these items on this day only.

Due to the success of an initial five city recycling event tour earlier this year, Dell extended the tour to additional cities, including Atlanta. The events are in support of the U.S. EPA's "Plug-In to eCycling" campaign. While computers are safe to use, they contain some environmentally sensitive materials. These materials can be safely removed or recycled, but only if we work to keep them out of our landfills.

P²AD is co-sponsoring this event in partnership with the Georgia Recycling Coalition, Georgia Tech, Emory University Recycling, U.S. EPA Region 4, City of Atlanta, and the Georgia Soft Drink Association.

Anyone unable to make it to the event that day, may locate vendors for recycling these materials throughout the year at www.p2ad.org.

Volunteers are also needed for the event. Those interested in assisting should contact Gloria Hardegree at 404-634-3095 or ghardegree@mindspring.com.

Hedgewood, *continued from page 1*

those issues the focus of her presidency.

With support from the National Association of Home Builders Research Center and Southface Energy Institute, the EarthCraft House program was designed to be a national model for energy efficient, sustainably built houses. In January 2000, Hedgewood became the first builder to commit to building all of its homes to the EarthCraft House standards.

Just three years later, Hedgwood's commitment to sustainable construction and smart growth, has received a stamp of industry approval of sorts as the Atlanta company was named 2003 Builder of the Year by Professional Builder magazine.

"For a company our size to be recognized with that prestigious an award says that we are doing something meaningful and different – and that it's working," Ms. Sessions said.

The EarthCraft House program's director said the award comes as no shock. "We're proud that Hedgewood has been honored as builder of the year, but not surprised," said Southface's Jim Hackler. "Pam Sessions and Don Donnelly's hard work and commitment to EarthCraft House made the program a reality.

> *"We decided to go this way because it's the right thing to do ... Green building grew out of our desire to build high-performance houses."*
>
> *-Pam Sessions, President Hedgewood Properties, Inc.*

"Hedgewood has long been the builder in Atlanta that other builders in the city turn to for new ideas," Mr. Hackler added. "It's exciting to let builders across the country know that we're doing great things in Atlanta."

Bill Lurz, Senior Editor at Professional Builder, wrote that Ms. Sessions and Mr. Donnelly have "accepted the mantle of housing industry leadership in smart growth and green building, two ideas that could reshape America's growth-challenged cities in the next decade."

Scrap drywall has been ground for later land application onsite at one of Hedgewood's EarthCraft construction sites. Scrap drywall diverted from the landfill can be a valuable soil amendment when properly applied.

In an interview with the magazine, Ms. Sessions stressed that her company's decision to build green was not motivated by profit. "We decided to go this way because it's the right thing to do," she said. "Green building grew out of our desire to build high-performance houses."

But consumers, she said, are becoming more aware of the issues surrounding green building – such as energy efficiency, indoor air quality, and water efficient landscaping. And when the market embraces a concept, she added, the builders will follow.

EarthCraft is certainly ready to meet the needs of the marketplace – with goals of expanding the program to the state, the region, and the nation. What started with standards for new construction has also grown to include renovations to existing houses. The next logical step, Ms. Sessions added, is creating EarthCraft communities.

That's the idea behind Vickery, the mixed-use, sustainable community Hedgewood is building around Ms. Sessions' and Mr. Donnelly's personal home in Forsyth County – which happens to be one of the fastest growing counties in the nation. The development is being planned to provide quick, non-vehicular access to green space, retail, and recreation. As Ms. Sessions said, "We really believe in what we do."

For more information, go to www.southface.org and look for the EarthCraft logo.

Calendar of Events 2003

Jun. 26	**Conservation Coastal Communities—New Ideas for Development Along the Georgia Coast** will be held at the Savannah State College King-Frazier Student Center from 8 am to 2 pm and is free to the public. Please RSVP to this seminar by June 24th to Jill Huntington at (912) 262-3053 or jill_huntington@dnr.state.ga.us.
Jul. 12	A **Computer Recycling Event** will be held at the Alexander Memorial Coliseum parking lot on the Georgia Institute of Technology campus from 9 am to 3 pm (see announcement on page 10 of this issue). For more information on items accepted and volunteer opportunities, contact Chuck Boelkins at (404) 651-5585 or chuck_boelkins@p2ad.org.
Jul. 20-23	The **Georgia Water and Pollution Control Association** will host its **2003 Annual Conference and Expo** at the new Savannah International Trade & Convention Center. For a full agenda and registration information, visit www.gwpca.org/03Annual_Conf/intro.htm.
Jul. 30 - Aug. 1	The **Seventh Annual Statewide Pollution Prevention Conference** will be presented by the Florida Department of Environmental Protection, the U. S. EPA, the Florida Pollution Prevention Roundtable (FLPPR), and the University of Florida TREEO Center at the Radisson Hotel Orlando. To reserve exhibit space, sign-up to be a sponsor or request additional information, contact Dawn Jenkins at (352) 392-9570 ext. 127 or djenkin@treeo.doce.ufl.edu or visit www.treeo.ufl.edu.
Aug. 24-27	The **12th Annual GRC Conference, Trade Show and Membership Meeting** will be held at the Ocean Plaza Beach Resort on Tybee Island, outside of Savannah. For a detailed agenda and registration information, visit www.georgiarecycles.org or email garecycles@mindspring.com.
Sept. 16	The Florida TREEO Center is offering the free course **Documenting & Improving Energy Use in Water Quality Systems** to train environmental trainers on energy efficiency and ECMs at POTWs and PWSs. For more information, visit http://www.treeo.ufl.edu or call Kate Ziemak at (352) 392-9570 x116.

Pollution Prevention Assistance Division
Suite 450
7 Martin Luther King, Jr. Dr. SW
Atlanta, Georgia 30334-9004
(404) 651-5120
(800) 685-2443 (outside metro Atlanta)

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