

Material

Fall 2006

M A T T E R S

A NEWSLETTER OF THE ILLINOIS RECYCLING ASSOCIATION

IRA Teams with TerraCycle on Bottle Collection Program

COMPANY USES EMPTY SODA BOTTLES TO PACKAGE ITS PLANT FOOD

The Illinois Recycling Association recently launched the nation's first statewide program for soda bottle collection. The IRA effort will involve bringing TerraCycle's Bottle Brigade program to schools, churches, charities and other non-profit organizations throughout the state.

TerraCycle's Bottle Brigade program pays non-profit organizations \$0.05 for each empty 20 ounce soda bottle collected, or \$0.06 each if the collector removes the label. In addition, TerraCycle offers a \$0.10 to \$0.15 "bounty" on the company's empty 20-ounce containers. Today, more than 1,200 schools, churches, charities and other non-profit organizations are registered for the Bottle Brigade.

IRA executive director Mike Mitchell said the trade group will initially promote the Bottle Brigade to PTA's and PTO's in elementary and middle schools.

"We are delighted to be part of the TerraCycle Bottle Brigade program," states Mitchell. "Illinois schools and other organizations will be able to raise funds by essentially collecting a commodity which otherwise may be ending up in the landfill. At the same time, we'll help an innovative company that reuses the bottles to package their products."

IRA will share the proceeds with the schools, making \$0.025 per bottle while the schools make \$0.025 to \$0.035, depending on whether or not the bottles are de-labeled. Schools and other non-profit organizations in Illinois that had previously registered and participated in the Bottle Brigade will not be required to share their proceeds with the association.

TerraCycle Plant Food™ is America's top organic fertilizer and the first consumer product made and packaged entirely from waste. The company takes premium organic waste that was destined for a landfill, feeds it to millions of worms, and liquefies their feces to make a powerful, all natural plant food. TerraCycle then packages the product in reused soda bottles. Whenever possible, the eco-capitalist company uses discarded materials, such as surplus spray heads and misprinted shipping boxes.

TerraCycle has received a number of awards for its innovative operations. In July 2006, *Inc.* magazine's cover story on TerraCycle crowned the company "The Coolest



Bottle Brigade – Illinois schools and other non-profit organizations can earn money by collecting boxes of used 20-ounce soda bottles. (Photo, left to right) Jeri Knaus, Illinois Dept of Natural Resources – Waste Management and Research Center and IRA Vice-President, Mike Mitchell, IRA Executive Director, and Tom Szaky, Founder and CEO of TerraCycle, display the collection box that will be used in the program.

Little Startup in America." In 2005, Home Depot Canada gave TerraCycle the retailer's Environmental Stewardship Award. In 2004, TerraCycle was named one of the 100 Most Innovative Companies by *Red Herring* magazine.

Tom Szaky, TerraCycle's founder and CEO, is excited about the company's partnership with IRA. "With the help of the IRA, we are implementing a statewide program to collect bottles for re-use while meeting our company's environmental commitments," says Szaky.

Registration for the Bottle Brigade program is available via the internet at <http://www.terracycle.net/bb/ira>. TerraCycle products are available nationally at leading retailers throughout the country.



MIKE MITCHELL

FROM THE EXECUTIVE DIRECTOR

I RECYCLE WEB SITE

A major new section of our web site is about to be launched. The I Recycle Materials and Services Exchange site will provide a listing service to foster the exchange, re-use and recycling of valuable commodities, products and services in Illinois.

The site will be organized under the categories:

- Materials Wanted
- Materials Available
- Products/Services Wanted
- Product/Services Available

Materials will be listed by category: fiber, plastic, glass, metal, electronics and other. The site will be publicly accessible and there will be no charge to post an item or respond to a posting. Anyone interested in posting an item will be required to fill out a short online registration form. Anyone interested in responding to a post can do so without registering. Advertising will also be accepted on the site. Banner ads will rotate at the bottom of the page. IRA members will receive a discount rate for advertising. For details, visit the IRA web site at <http://www.illinoisrecycles.org> and look for the I Recycle link.

NEWSPAPERCLIPS.COM

IRA is making an interesting and informative daily news service available to its members. NewspaperClips.Com searches all Illinois daily newspapers for articles using a list of keywords related to recycling. Links to these articles are collected in a daily email organized under each of the keywords. The email is sent to you directly from NewspaperClips.Com under the subject title "Illinois Recycling Association's News Clips." Last month I sent out an email to the Member Listserv explaining the program and asking you to respond with a YES if you want to be included in the service. If you have not yet responded, please email the IRA office immediately. NewspaperClips.Com has an industry standard privacy policy and you can unsubscribe at any time by emailing

the IRA office. The daily email only takes a minute or two to peruse, and it has been my and many IRA board members' experience that there are numerous articles of interest reported on a regular basis.

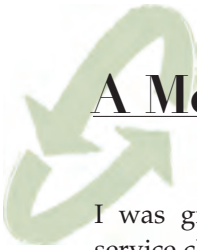
2007 JOINT CONFERENCE—BIGGER AND BETTER

IRA has signed a Memorandum of Understanding with the Illinois Counties Solid Waste Management Association (ILCSWMA) and the Land of Lincoln Chapter of the Solid Waste Association of North America (SWANA-LOLC) to hold a joint conference in 2007. The title of the conference will be The Illinois Recycling and Solid Waste Management Conference. It will be held June 10-13, 2007, at the Holiday Inn City Centre in Peoria, IL. The purpose of sponsoring a joint conference is to provide the memberships of each organization, as well as vendors and other interested parties, a single event where attendees can be exposed to a greater information, education and networking base. This will serve to increase the knowledge and professionalism of public and private sector entities involved in managing solid waste and commodity recycling in Illinois. Please put this exciting new event on your calendar and look for more information in the months ahead.

DCEO REQUEST FOR APPLICATION ILLINOIS ZERO WASTE SCHOOLS GRANT PROGRAM

Application Deadline: November 1, 2006

The Department of Commerce and Economic Opportunity (DCEO) is soliciting applications from Illinois public and private schools for grants to implement/expand recycling and waste reduction programs and strive to achieve zero waste status. Illinois public school districts must submit only one application for the total number of schools participating in the zero waste project. The maximum grant request may not exceed \$10,000 per school. Two levels of funding are available. Each level has a different set of eligibility requirements. For more information click on the icon on our web site home page or go to www.illinoisrecycles.org/pdf/files/07_ZeroWasteGrant.pdf.



A Message from the President

BY ROD FLETCHER

I was giving a presentation on recycling to a local service club the other day and a member followed with reading a portion of Edward Kennedy's eulogy for his brother Robert. As I listened, it gave me inspiration. We all have our ultimate goals for improving our world. Whatever your goals are, I hope these words can inspire you as well...

"Surely, we can begin to work a little harder to bind up the wounds among us and to become in our own hearts brothers and sisters and countrymen once again. The answer is to rely on youth – not the time of life but a state of mind, a temper of will, a quality of imagination, a predominance of courage over timidity, of appetite for adventure over the love of ease.

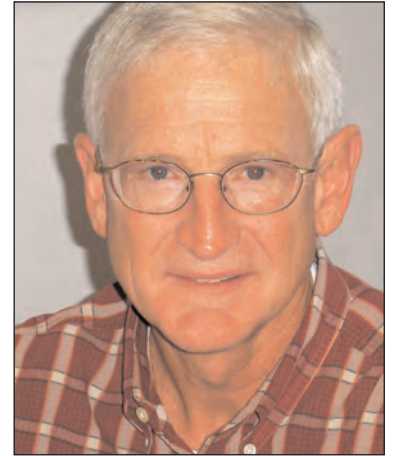
It is a revolutionary world we live in, and this generation at home and around the world has had thrust upon it a greater burden of responsibility than any generation that has ever lived. Some believe there is nothing one man or woman can do against the enormous array of the world's ills. Yet many of the world's great movements, of thought and action, have flowed from the work of a single person. A young monk began the protestant reformation; a young general extended an empire from Macedonia to the borders of the earth; a young woman reclaimed the territory of France; and it was a young Italian explorer who discovered the New World, and the 32 year-old Thomas Jefferson who claimed that "all men are created equal."

These people moved the world, and so can we as well. Few will have the greatness to bend history itself, but each of us can work to change a small portion of events, and in the total of all those acts will be written the history of this generation.

It is from the numberless diverse acts of courage and belief that human history is shaped. Each time a person stands up for an ideal, or acts to improve the lot of others, or strikes out against injustice, they send forth a tiny ripple of hope, and crossing each other from a million different centers of gravity and daring, those ripples build a current that can sweep down the mightiest walls of oppression and resistance.

...All of us will ultimately be judged, and as the years pass we will surely judge ourselves on the effort we have contributed to building a new world society and the extent to which our ideals and goals have shaped that event.

The future does not belong to those who are content with today, apathetic toward common problems and their fellow man alike, timid and fearful in the face of new ideas and bold projects. Rather it will belong to those who can blend vision, reason and courage in personal commitment to the ideals and great enterprises of American Society."



Rod Fletcher, Environmental Manager for the City of Urbana, is serving his 3rd year as IRA President and his 4th year on the IRA Board of Directors.



America Recycles 2006: It All Comes Back to You

NATIONAL EVENT SET FOR NOVEMBER 15

We're down to just a month until America Recycles 2006 is celebrated on November 15! Don't forget that IRA can help you get ready. We have four kinds of ARD posters available free of charge and pledge cards that can be downloaded from our web site. Simply click the links underlined in this article. Email the IRA office to get your event listed on the America Recycles 2006 national

web site. For more information about America Recycles Day, check out IRA's ARD page. Pledge online at <http://www.americarecyclesday.org> and win a bike or even an Alaskan Cruise!



**AMERICA
RECYCLES
2006**



Illinois Curbside Programs Reach Milestone

2006 MARKS THE 20TH YEAR OF CURBSIDE RECYCLING

This year marks the 20th anniversary of the first curbside recycling programs in Illinois. The first efforts to pick up recyclables from homes — considered a radical approach in the days of drop-off centers — were initiated in the cities of Urbana, Naperville and a neighborhood in Chicago.

The City of Urbana began their city-wide curbside collection on September 22, 1986. The program started on a subscription basis. Initially 1,700 household (20% of the total) signed up for the service. Each home was provided with two 5-gallon plastic buckets for their recyclables, which were limited to newspaper, aluminum and steel cans, and glass containers. City public works crews collected the recyclables, using a truck pulling a three-bin trailer. The city continued collection until the service was contracted out in 1996.

Naperville’s initial efforts were started by a non-profit group called the Naperville Area Recycling Center (NARC). Center staff began a pickup service independent of the city’s refuse service. As both the city’s population and recycling volumes continued to grow, the city contracted out for recycling service under a separate contract from refuse collection.

The Resource Center, a non-profit based in the Hyde Park neighborhood of Chicago, also began offering recycling pickup service to local residents in 1986. Volkswagen Microbuses were the original collection vehicles for the subscription-based community service. The City of Chicago, of course, began their “Blue Bag” recycling program in the mid 1990’s. However, the Resource Center continued offering their pickup service which today has grown to weekly service for some 7,150 single family homes, along with 500 apartments and businesses.

SPOTLIGHT ON DCEO

RFA ANNOUNCEMENT FOR ILLINOIS RECYCLING GRANTS PROGRAM

Application Deadlines:

Computers and Electronics Recycling:
December 15, 2006

Traditional Recyclables:
December 15, 2006

The Department of Commerce and Economic Opportunity’s Bureau of Energy and Recycling is pleased to announce two separate grant opportunities. The department is seeking applications from qualified entities for traditional recycling (fiber, plastic, metal, and glass) projects and/or computers and electronics recycling projects. The purpose of these solicitations is to divert recyclable commodities from Illinois landfills by increasing the quantity of materials recycled in Illinois and increasing the self-sufficiency of the recycling industry, as well as to establish permanent collection facilities, expand operations for processing computers and electronic equipment, and for the removal and proper management of electronic components. Projects that demonstrate public economic benefits, such as job creation, will be given priority.

Grants are available to assist local governments, for-profit, and not-for-profit businesses and organizations with their recycling efforts. Traditional Recyclables grant funds may be used to purchase project-related capital equipment such as collection, processing or handling equipment; project-related expansion and modernization costs; and the development and distribution of materials designed to promote and educate participants about the project. Computers and Electronics Recycling grant funds may be used to set up permanent drop-off and collection facilities; purchase recycling containers; site improvements; and purchasing processing and handling project-related equipment to collect, refurbish, demanufacture, and recycle computers and electronic equipment.

Last year the Illinois Recycling Grants Program awarded 11 grants totaling more than \$573,000 for Traditional Recycling and 13 grants totaling nearly \$673,000 for Computers and Electronics Recycling. Grant funds are made available from the Illinois Solid Waste Management Fund. The maximum grant amounts for the Traditional Recyclables grant program are \$60,000 for collection projects and

\$120,000 for primary processing projects. For the Computers and Electronics Recycling grant program, the maximum grant request is \$60,000 for collection projects and \$75,000 for processing projects.

Entities interested in submitting an application for Traditional Recyclables are encouraged to schedule an individual consultation with their regional DCEO representative by calling 217-785-3416. Those interested in submitting a Computers and Electronics Recycling RFA should contact Sam Al-Basha at 217-557-5662 or at Sam.Al-Basha@illinois.gov. It is recommended that all interested entities attend one of the scheduled workshops. Both RFAs can be downloaded via our website at <http://www.illinoisrecycles.com> (look to the right for the navigation bar for the appropriate RFA).

To obtain a Traditional Recyclables and/or Computers and Electronics Recycling RFA, please call 217-785-3416, or write to:

Illinois Department of Commerce and Economic Opportunity
Bureau of Energy and Recycling
Illinois Recycling Grants Program
620 East Adams Street
Springfield, IL 62701-1615



A R O U N D ILLINOIS

A HISTORY OF RECYCLING AT BLACK HAWK COLLEGE

In the beginning, recycling got off to a slow start at Black Hawk College, a community college located in northwestern Illinois. In 1987, the Student Government Association at the Quad-Cities Campus in Moline placed makeshift trash cans around campus for aluminum pop cans. They also collected cardboard from the bookstore and shipping and receiving, and drove batches to the local recycling center about every six weeks. As more and more cardboard was collected, the college contracted with a recycling company to make regular pick ups.

The idea of recycling really took off after the State of Illinois mandated that the college reduce its 1987 waste production by 40% by the year 2000. A Recycling Committee consisting of faculty members, staff members and students was formed in 1992 and a formal recycling program was developed.

After the Recycling Committee submitted the College's Waste Reduction Plan in 1995 and received an Illinois Department of Commerce and Community Affairs (DCCA) implementation grant from the Illinois College Assistance Program, the level of recycling jumped to a new high. A cardboard baler was purchased for the Quad-Cities Campus along with containers and carts to collect recyclables at the Quad-Cities Campus, East Campus and numerous satellite sites.

Today Black Hawk College collects a wide variety of recyclable items including paper, magazines, newspapers, cardboard, chipboard, aluminum cans, bi-metal and steel cans, scrap metal, plastic pop bottles, glass, toner cartridges, oil, fluorescent bulbs, plastic bags, computers and cell phones. Collection records began in 1998 and since then, the College has collected 175 tons of paper; 95 tons of magazines/newspapers and 102 tons of cardboard. The amount of waste that the College sends to the landfill also has taken a dramatic drop of 64% in comparison to amounts from 1987.

In an effort to "Reduce, Recycle, Reuse," the college buys recycled products when possible. In calendar year 2005, Black Hawk College used OfficeMax to purchase consumable office supplies. A Recycled Usage Report from OfficeMax shows what purchased items were made with recycled materials, the percentage of total recycled content of the product, and the percentage of post-consumer recycled content.

In 2005, college employees purchased \$12,846 worth of recycled items out of \$107,012 in purchases (or 12%). Consumable items with recycled content included calendars, envelopes, folders, copy paper, pad paper, scissors, transparencies, clipboards and toner.

Black Hawk College houses award-winning Equestrian Science and Horse Science Technology programs in its 25,000-square-foot Ag Arena at the East Campus in Kewanee. The horses generate about 800 tons of solid waste in two semesters and livestock shows generate an additional 100 tons per year. Since fresh manure/bedding releases poisonous nitrates into the soil and water, the College is challenged to safely and cost-effectively dispose of the material. So, Black Hawk invested in a composting system to break these materials down into a product that can be stored anywhere and incorporated as a soil amendment later on.

The process takes approximately four months and reduces the volume of material by about one-half. Last year, the 900 tons of manure, wood chips, hay, feed and straw were transformed into about 750-800 cubic yards of ready-for-application compost. The College gives away the compost and several farmers, local gardeners, as well as groundskeepers from both College campuses, use the material.

While the Black Hawk College recycling program has grown significantly since its inception in the 1980s, the Recycling Committee plans to refine how recyclables are collected and hopes to add more items to the list of recyclables collected.



New Program Sets Standards for Clothing Recycling

A NEW BRAND OF RECYCLING BOXES

The Vietnam Veterans of America (VVA) and Unique Thrift Stores, a Chicago chain of thrift superstores, have launched a partnership featuring top-of-the-line clothing recycling boxes, supported with superior servicing standards. VVA, which runs similar programs throughout the country, contracted locally with Unique Thrift Stores, who will buy all discards placed in the VVA boxes in addition to servicing them. Scott Okun, Unique Thrift's Community Partnership Manager, says that their servicing standards are considerably above the industry standard as all boxes are serviced daily, with the option of additional servicing if the need arises.

The City of Lockport was one of the first cities to adopt an ordinance for donation/recycling drop box facilities to ensure appropriate service and maintenance standards would be met. Tom Fulton, Code Enforcement Officer for the City of Lockport, notes that the VVA/Unique Thrift partnership met their requirements.

"They are the only company that was approved in 2006 to place clothing recycling boxes in the City of Lockport," says Fulton.

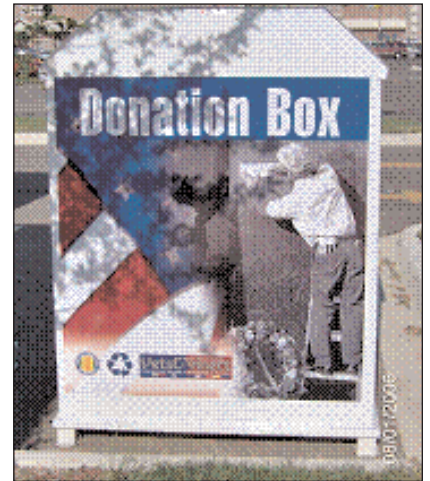
Quentin Butcher, VVA's National Business Manager, says the program has a dual benefit. "Our VVA boxes provide a great opportunity for communities to recycle their old clothes and shoes so that they can be reused by others and, in the process, they are helping our organization raise funds for important veteran's programs," says Butcher.

Okun states that his company expects to recycle virtually all of the old clothing and shoes placed in these VVA boxes, stating that "A lot of people's discards, unfortunately, we can't or won't sell in our stores, but we work hard to make sure our rejects don't end up in

landfills by finding alternative uses for them."

This spring, Standard Bank agreed to host VVA clothing recycling boxes at their Illinois and Indiana bank branches as a way to help encourage recycling and reuse, and to help a worthy charitable organization. Thus far, 50 boxes have been placed, with more on the way. "The VVA and Unique Thrift Stores extend a sincere thank you to Standard Bank for their support and community leadership," says Okun.

If you are interested in hosting a box or would like additional information about the program, contact Scott Okun at 708-476-3788.



Leave The Lids On?

One of the basic instructions for recycling bottles and containers has always been to remove the lids and caps and rinse prior to recycling. However, it may now be best to leave the caps on PET beverage containers.

Paul Jaquet of Eagle Enterprises Recycling reports that during a tour of the Mohawk Carpeting recycling operation in Georgia, he was interested to learn that Mohawk recycles the caps.

Mohawk is a major national market for post-consumer PET bottles. The caps are made from polypropylene resin. During Mohawk's flaking and washing process, caps and safety rings are removed from the PET bottle material. Mohawk then sells the polypropylene for \$0.25 per pound.

BEST OPERATIONAL PRACTICES FOR MATERIALS RECOVERY FACILITIES AND RECYCLING DROP-OFF FACILITIES

THURSDAY, NOVEMBER 2

Registration 8:30 to 9 a.m.

Sessions from 9:00 a.m. to 3:00 p.m.

This one-day training will raise your level of professionalism in the recycling industry in Illinois. Spend the day interacting with your peers in the recycling industry, and gain valuable information which you can put into practice the very next day.

COURSE DESCRIPTION:

The purpose of this course is to assist Illinois counties, cities and business that own/operate materials recovery facilities (MRFs) and recycling drop-offs to evaluate their operations in accordance with Best Operational Practices (BOPs) to reduce negative environmental impacts, advance safety consciousness, improve processing efficiencies, reduce operating costs, and increase the potential to improve revenues for the materials recovered.

TOPICS INCLUDE:

- MRF design for location and efficiency
- Material management from receiving through baling and storage
- Baler selection and operation, residual management, maintenance and transportation
- Marketing
- Health and safety in the workplace -- Helping to keep you OSHA compliant
- Pollution control and good neighbor practices
- Optimizing drop-off operations

REGISTRATION

Register at www.illinoisrecycles.org or call 708-358-0050

IRA Members \$75 | Non-Members \$150

Registration Deadline 10/30/06

Location

Naperville Holiday Inn Select

1801 Naper Blvd., Naperville, IL 60563

(630) 505-4900

BIG QUESTION OF THE MONTH

"I was told that only #1 and #2 plastics can be recycled. I was also told that any plastic number can be recycled. Would you please tell me the correct truth?"

BY GARY MIELKE

Here's one version of the truth: Some items with each of the codes #1 through #7 are recyclable in some places, under certain conditions.

Fifteen years after the code numbers were first placed on plastic containers, the numbers are still confusing everyone who takes the trouble to look for the markings.

Here's another truth: The code numbers were originally intended to serve as identification numbers, to assist recyclers with sorting the then unfamiliar types of plastic. There's an actual state law (P.A. 86-177) which (beginning in 1992) requires that all single use plastic containers with a capacity of 16 ounces or more, or other single use plastic

containers with a capacity of 8 ounces or more, must be coded to assist recyclers in sorting such containers by resin composition.

Fifteen years later, the codes can now be found on everything from plastic bags to blister packs to produce clamshells, some claim in an intentional effort to "greenwash" the public. And almost everyone assumes that if it has a number, it is recyclable.

So people include all coded items in their weekly recycling sort, the truck driver empties the whole bin, and some of the stuff ends up in the residue pile at the sorting plant. Fortunately plastics don't weigh much, and residue is typically

measured by weight, so sorting residue percentages remain low.

Here's another truth: Proper plastics recycling is an incredibly complicated venture, too complicated for the general public and even most recycling coordinators. A lot of the plastic separated for recycling does, in fact, get made into another product and diverted from landfills. So we accept a flawed system.

Most of the recycled plastic is used to make products such as carpet, drain tile, or lumber, which cannot themselves be recycled again, leading one to wonder exactly how much progress we're making. But that would be a different question.

Digging into Research

UNIVERSITY TURNS WASTE INTO SOIL COMMODITY – BY JASON LEE, THE SOUTHERN ILLINOISAN

Southern Illinois University Carbondale has worms.

Lots of them - about 2 million of the red wigglers, to be exact - are munching away on thousands of pounds of food waste at a new facility at 3373 W. Pleasant Hill Road.

Through a process known as vermicomposting, the university this summer launched a project to turn mounds of food scraps and trash from the Student Center and dorm cafeterias into nutrient-rich soil - using worms.

Rather than piled in a landfill, the waste, from paper napkins and cups to chicken bones and apple cores, will be eaten by worms.

"This project really reduces the amount of waste we're taking to the landfill by turning waste into a commodity," said Andilee Warner, SIUC recycling and solid waste coordinator.

The "commodity" Warner speaks of is actually worm poop, scientifically known as "castings."



Andilee M. Warner, recycling and solid waste coordinator at Southern Illinois University Carbondale, holds one of the two million red wiggler worms that researchers will use to determine potential applications of vermicompost on crops and turfgrass. Utilizing food waste from University residence halls, the resulting compost is very rich in nitrous phosphorous and the organic nutrient additive could complement existing mineral fertilizers. The project is the first application of a university using vermicomposting in the state. An open house at the new facility is set for Friday. (Photo by Jeff Garner)

Compared to ordinary soil, worm castings contain five times more nitrogen, seven times more phosphorus and 11 times more potassium. The stuff is rich in humic acids and improves the structure of soil, she said.

Agricultural students will be testing the castings and use them to grow vegetable crops and turf grass as well as for use in spring planting at University Farms.

Warner said at first she was a bit concerned about whether the facility would receive enough waste to keep the worms satisfied, but so far the amount has been better than expected.

"It's only been about a week, but it's going really well," she said. "I think we're definitely going to have enough food."

According to the university, 852,263 meals were served in the 2003-04 school year, thus creating thousands of pounds of food waste.

"Traditionally, all of that would be going to a landfill," Warner said.

The university paid for the building, but everything else, including a yellow hydraulic lifter that dumps the waste into worm bins, commercial paper shredders and the worms were bought using grant and research funds.

Gov. Rod Blagojevich also recently announced the state would contribute a \$150,000 grant to SIUC as part of its Recycling Expansion and Modernization program.

Meanwhile, the building itself is also eco-friendly. Recycled motor oil from SIUC's fleet of cars is used to heat the building, and the concrete floors are 18 percent fly ash, a waste substance created when fuel is burned at the university steam plant.

Those measures are expected to save SIUC about \$93,000 over 10 years, Warner said.

This article was reprinted from The Southern Illinoisan published on 8/26/2006.

NEW IRA MEMBERS

Welcome New Members:

Bill Kramer

Acme Refining Co.
Chicago, IL

Barb Ehresman

Advanced Technology Recycling
Pontiac, IL

Robert Bromberek

B & W Mountain Tarp
Chicago, IL

Mike Gianneschi

Belmont Technology
Elk Grove Village, IL

Argus Tong

Community Electronics Technology
Interface, Inc. (CETI)
Carbondale, IL

Kevin Poole

Container Recycling Alliance
Chicago, IL

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Montebello, CA

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Batavia, IL

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Maine Plastics
Zion, IL

Scott Okun

Nandorf Inc. / Unique Thrift Stores
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Strategic Materials, Inc.
Owatonna, MN

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TOTALL Metal Recycling
Granite City, IL

Angela Haas

WITS Inc.
St. Louis, MO

Contact information for all members can be found at IRA's on-line membership directory.

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- Andilee Warner, Southern Illinois University Carbondale

The IRA is a statewide professional association comprised of business, government, educational institution, non-profit and individual recyclers that provide for the exchange of information and ideas on resource conservation through re-use, recycling and waste reduction. IRA is a state affiliate of the National Recycling Coalition. *Material Matters* is published four times per year. To advertise or submit articles for publication, contact the IRA office:

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