

Trash Trap Traps Trash

There is something new floating in the Main Stem, and it's making the river cleaner for people and wildlife. It's called the Chicago River Trash Trap; you may have noticed it, given its prominence, floating in the water at the Wendella boat dock near Michigan Avenue at the iconic Wrigley Building.

Deployed in July, the trash trap is about the size of a standard garbage can and works by drawing water and debris in from the surface using a submersible water pump. Litter is trapped inside a catch bin and the

water is pumped back out. The catch bin, which can hold up to 44 pounds, is checked each day and emptied as needed.

The latest addition to Friends' multi-pronged approach to a litter free Chicago-Calumet River system, this technology does more than just remove litter from the river. It creates an opportunity to identify the composition of litter present and use that data to inform good policy for reduction strategies that address the persistent problem of litter and encourage new behaviors.

> his students in the biology department at Loyola University of Chicago will collect litter from the trap, it at their lab in Rogers Park, in accordance with protocols established by the International Trash Trap Network at the University of Toronto. The network, which is led by the Ocean Conservancy, was formed in and reduce plastic pollution in ecosystems.

Professor Hoellein serves on our Litter Free Task Force which was formed in 2018 with the support of the Mars Wrigley Foundation. The task force brings businesses and nonprofits together to create resources, share information and promote events, behaviors, and policies toward creating a litter free river system.

"A big part of our problem locally is food and beverage packaging that is getting into the river," said Professor Hoellein. His research shows that 80 percent of trash in the river is plastic of some kind, and 80 percent of that plastic is from food packing such as cups, bottles, and other degraded plastic fragments. "I am really encouraged that this trash trap is happening; to join in and generate data to contribute to the bigger picture of trash that's really a global problem."

After decades of action and advocacy, major dumping is not ubiquitous in the river system as it was years ago but smaller litter still persists and plastic and food related waste abound.

Professor Tim Hoellein and dry it, sort it, and characterize 2017 to increase waste literacy





Mike McElroy removes litter from the Chicago River Trash Trap.

See page eleven for membership opportunities.



The Right to Recreate

At our August staff meeting, a co-worker announced that climate change affects her work and our paddling programs every day. Damaging floodwaters filled with sewage and contaminated runoff, particulate air pollution from Canadian wildfires, and extreme heat conspire to turn summer on the river into an emergency planning exercise requiring all kinds of safety precautions and alternative activity solutions.

Climate change is just one of the reasons why recreation on the river is so important. In hot crowded cities, people crave relief from the heat. To offset daily pressures, families need nature to find peace and quiet. And children everywhere deserve places to play where they can be in nature and learn to swim, float, or paddle.

The right to recreate in our urban rivers and its benefits are being recognized worldwide. Paris has its billion-dollar+ Swimming Plan for the Seine. Munich invested \$38 million in the Isar to relieve flood-prone neighborhoods and the river's flora and fauna. The net result is clean water, quality wildlife habitat, and natural banks which allow public access during our new normal of summers with sweltering heat.

The right to recreate isn't a new idea and it is embedded in federal law and the foundation of the Clean Water Act. And it is a big idea worth fighting for to ensure there is safe, equitable, and widespread river system access, which is needed now more than ever.

Friends has been defending our right to recreate since 1979 when Robert Cassidy, Ralph Frese, and Maurice Parkin paddled the Chicago River from Glenview to downtown to explore Chicago's eponymous waterway and consider why it was so fenced off and polluted.

The willingness to push, to advocate, to educate and to demonstrate is the foundation of Friends of the Chicago River, and our programs reflect that. Each year Friends engages tens of thousands of people in our programs to teach them about the river and inspire them to become its stewards. And our efforts have paid off with clean water, greater access, and a booming riverfront economy yet, we are not done yet.

Science shows that many reaches of the river system are clean enough for swimming yet our elected officials and government agencies won't support it and they don't want to do the work to truly make it safe. But because we know that the future is upon us with heat, rain, and fire, we won't give up until we have secured what is deserved for us all, the right to recreate on the river we love. A right with an impact that will make much more than a splash.

Margaret Frisbie
Executive Director

STAFF & BOARD

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Our vision is to make the Chicago River one of the world's greatest metropolitan rivers.

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Environmental Education Grows Future Leaders

With the 2023-24 school year underway, Friends' Chicago River Schools Network (CRSN) is off to a strong start. Less than a month into the school year Friends has already taken or scheduled dozens of school trips and expects to surpass previous program implementation by a wide margin. As the effects of the climate crisis are increasingly visible around the world, educators and students in the Chicago region are eager for more environmental education opportunities that foster a local sense of place while connecting to global issues and solutions.

The CRSN empowers local teachers with the knowledge and resources to teach Chicago-Calumet River ecology, environmental health, and climate and pollution impacts through workshops, presentations, and field trips. Last school year our CRSN program reached more than 20,590 students.

For decades the CRSN has been one the most impactful ways to reach racially and ethnically diverse audiences with 90% of students coming from public schools, especially in Chicago. This academic year Friends continues to expand our geographic reach with the CRSN and further increase racial and ethnic diversity, particularly in the Calumet region, supported by a grant from the U.S. Environmental Protection Agency. This effort intersects with Friends' broader emphasis on diversity, equity, and inclusion within and across the organization, which tasks staff to expand

the CRSN's reach with students and teachers in underserved communities as well as expanding the network to support youth of color pursuing environmental careers.

Additionally, since Friends' launch of the Natural Solutions Tool in March 2023, the CRSN began development on a new high school curriculum to expose students to this powerful GIS-based tool centered on equity, public health, biodiversity, resiliency, and greenway connectivity.

"We help dispel long-standing misconceptions about the Chicago-Calumet River system and introduce students into a new relationship with the river system—one that is data-driven and backed by science that the kids can participate in," said Friends' Education Manager Mark Hauser. Core to the CRSN are Hauser's popular field trips with students and teachers across the river system. Since 2010, the CRSN has averaged over 65 field trips each year inspiring thousands upon thousands of Chicago-area students to be environmental justice leaders, biologists, chemists, and natural resource restoration workers.

In 2021, the Illinois Environmental Education Association rewrote its environmental literacy framework for the first time in a decade, recognizing the need to adapt curricula to meet the changing needs of students and teachers. With a focus on advancing equitable environmental literacy, the new framework centers on the "understanding that everyone has a right to high-quality environmental education, and a healthy and just environment is the foundation on which equitable environmental literacy must be built." The CRSN provides the opportunity to become literate.

Since its founding in 1996, the CRSN has engaged more than 475,000 students and teachers in science, arts, and history activities at river locations, north, south, and west. As the climate crisis intensifies, Friends builds hope for the future in continuing to train the next generations of environmental leaders.

To arrange a field trip, an in-classroom presentation, or teacher workshop educators should contact Hauser at mhauser@chicagoriver.org.

Students in a forest preserve summer program learn about water quality testing from Mark Hauser at Kickapoo Woods.

Chicago River Blue Awards

The winners of the 2023 Chicago River Blue Awards were announced in May at the Big Fish Ball. Since the first awards in 2010, Friends of the Chicago River has recognized 83 projects that represent both large-scale initiatives and the equally important individual actions of river-edge property owners and elected officials.

Blue Ribbon Award

For the highest standard in river-sensitive design, the 2023 Blue Ribbon Award was presented to the Village of Alsip and the Morton Arboretum for their leadership in green infrastructure. Their innovative project within the Village of Alsip transformed an underutilized paved parking lot along the Cal-Sag Channel into a stormwater-capturing space that also serves as habitat and for recreation.



(Left to right) Zach Wirtz of the Morton Arboretum and Mike Fraider of the Village of Alsip receive the Blue Ribbon Award from Friend's Board President Sally Fletcher and Executive Director Margaret Frisbie.

Silver Ribbon Awards

The Palos and Sag Valley Forest Preserves Restoration by the Forest Preserves of Cook County

Omni Ecosystems HQ Rooftop in Chicago, designed by Omni Ecosystems

Story continued on page 7...

Litter Free Poster Contest Winners

Friends of the Chicago River celebrates the creativity of students in imagining a litter free Chicago-Calumet River system. Our Chicago River Day Poster Contest welcomed submissions of original artwork from Chicago-area elementary and high school students.

Sponsored by Waste Management, students were asked to engage their creativity on the issues of litter reduction, individual or community action, and ways to improve our rivers. The students participating in the contest were separated into three groups based on their age (8-10, 11-14, and 15-18), with one winner selected from each group.

Congratulations to the Winners

Age

- 8-10 Mirabelle Royer Sacred Heart School
- 11-14 Maia Feiger Waters Elementary School
- 15-18 Xuying Li Lane Tech College Prep High School



Poster designed by Mirabelle Royer from Waters Elementary, winner in the 8-10 age category.

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"I've worked on the Chicago River for 35 years and it's a lot cleaner than it used to be; you just don't notice that much litter in the Main Stem anymore, but we are removing at least 40 pounds a week," said Mike McElroy, president of the Chicago Harbor Safety Committee and director of Marine Operations at Wendella. "I'm elated how well the trap works, and it's drawing attention from Wendella customers, boaters, and kayakers; people are curious about it."

Typically, trash trap technology is deployed in marinas where the water levels are more stable. After the trap was installed in the Main Stem downtown, McElroy said his team made modifications to it, making it more resilient to the unique attributes of the river system such as the fluctuations of the river's height, particularly during heavy rainfall. This included fabricating a dock, installing a ladder to the seawall, and adding an electrical outlet to power the trap's pump. McElroy said he intends to explore ways to power the trap with solar energy.

The first technology of its kind deployed in the Chicago-Calumet River system, the trap is the result of a collaboration among Friends, the Mars Wrigley Foundation, Wendella, The Wrigley Building, and MWRD Commissioner Marcelino Garcia.

Professor Hoellein notes, "We are not going to trap our way out of this problem but it's something we can do that's positive... and it generates information and starts a discussion that can lead us to preventative measures, which are ultimately the solution."

Volunteers Tap Litter Free Supply Stations

To empower individual and small-group volunteers, Friends' Litter Free Chicago-Calumet River program now supports a network of 10 Litter Free supply stations at community-based locations across the watershed, including at Big Marsh Park, the first one serving the Calumet region. Supply Stations enable people to borrow supplies such as litter grabbers, buckets, trash bags and gloves for free and, utilizing Friends' Litter Free Toolkit, run cleanups along the river and in their neighborhoods.

From January through July 2023, 16 groups utilized the stations, engaging over 300 volunteers in independent cleanups. The supply station housed at Friends' McCormick Bridgehouse & Chicago River Museum is popular with corporate groups, conveniently located near downtown offices for pickup and drop-off so groups can clean the Riverwalk or travel offsite for cleanups.



Margo Wilwerding (foreground) and the Deloitte team at Canal Origins Park.

Utilizing the resources of a station, Margo Wilwerding, a supply chain and sustainability consultant at Deloitte, organized 30 of her colleagues in June for Deloitte's Impact Day. The team participated in a litter cleanup at Canal Origins Park along Bubbly Creek on the South Branch of the Chicago River.

"We were able to seamlessly borrow the supplies in the morning and return them in afternoon. We were incredibly grateful for the station's resources, as they reduced the amount of new materials we had to buy for our zero waste event," said Wilwerding, who also serves on the Illinois Environmental Council's Young Professionals Board. "We had a lovely day and were thrilled to support the community. Our team collected 150 pounds of litter and 30 pounds of recycling. We are now looking forward to collaborating with Friends to host a River Action Day next year."

If your organization is interested in becoming a host site for a supply station contact Becky Lyons, Friends' director of equity and engagement, at blyons@chicagoriver.org. For a list of our existing Litter Free supply stations and checkout information, please visit chicagoriver.org.



Another Record Breaking Chicago River Day

Our 31st annual Chicago River Day in May was a huge success, surpassing last year's highest-ever volunteer engagement by galvanizing more than 2,300 individuals, families, community groups, and corporate teams who worked in and along the river system at a record 78 locations in the city, suburbs, and forest preserves.

Hard-working volunteers fanned out along the river system throughout the City of Chicago, south and southwest into Dolton, Riverdale, Palos, and Summit, as well as north into Lincolnshire, Lake Forest and North Chicago.

The massive litter cleanup and restoration event also kicked off this year's litter removal efforts under Friends' Litter Free Chicago-Calumet River program, which includes more litter cleanup events on land and from the water as well as the rollout of our network of Litter Free Supply Stations. Each supply station contains the information and tools needed to run safe and independent litter cleanups.

Friends thanks our sponsors for making Chicago River Day 2023 possible:

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Concerns about Current Bally's Casino River-Edge Site Plans

Friends of the Chicago River found cause for concern when we saw the most recently released drawings of the landscape design plan for the future site of Bally's Casino on the North Branch of Chicago River. The plans are eroding away earlier concepts that were negotiated through river advocate and community feedback discussions.

These include key ecological landscape elements and passive park spaces that are important features for this site to mitigate the potential negative effects of having such an intense entertainment use along the river.

Behind-the-scenes adjustments to the river-edge site plans and landscape renderings show a slow deterioration of the originally more nature-focused concepts into hardscape amphitheaters, concrete steps, turf grass, and oversized ramps that imply a promise of a vibrant social gathering space but that has little ecological value and lacks tree cover and landscape to create a pleasant place for people.

The new design also has removed some features of the original landscape design that provided bird-friendly habitat—and other design details that were discussed in detail with the development team at the City's River Ecology and Governance Task Force meeting in September 2022. Friends reported the changes to the Chicago Department of Planning and Development and urges Bally's not to let short term thinking obstruct this once in a lifetime opportunity to realize cutting-edge river-edge design that is natural systems focused.





The loss of natural areas after Planned Development approval is reflected in the 2022 and 2023 illustrations.

Chicago River Blue Awards

Story continued from page 4

Green Ribbon Awards

Pekny Park Green Infrastructure Project by the Riverdale Park District

Cougle Foods Company Headquarters by Cougle Foods in Chicago

The Meadow at the Old Post Office by 601W Companies LLC, in Chicago

The Preserve of Highland Park by the Park District of Highland Park

Litter Free Poster Contest Winners

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Honorable Mentions

- 8-10 Naia Bryson, Waters Elementary School
- 11-14 Addie Stockmaster, Niki Katsoulo, and Benjamin Cederquist Waters Elementary School
- 15-18 Teresa Dingman and Mia Venice Lane Tech College Prep High School

The posters from the winners and honorable mentions will be on display at the McCormick Bridgehouse & Chicago River Museum through the end of 2023 season, October 28. The Bridgehouse Museum is open from 10 a.m. to 5 p.m. Wednesday through Sunday.

Paddling with a Purpose

Paddling along the reaches of the Chicago-Calumet River system is an immersive encounter with the river and its wildlife which often leads novice canoeists to become enthusiastic river advocates. Our on-the-water programs enable volunteers to explore the river system while learning about its diverse plant and wildlife, nurturing a call to stewardship for its restoration and protection and to paddle with a purpose.

As such, this season's volunteers in our Paddle and Plant program introduced more than 3,000 native aquatic plants to bolster the Chicago-Calumet River ecosystem. The plant palette included lizard's tail (*Saururus cernuus*), river bulrush (*Bolboschoenus fluviatilis*), and other natives which can thrive and survive despite the river's fluctuating water levels. Not only do these plants provide food and habitat for river animals like beavers, they also help stabilize riverbanks, mitigating the detrimental impacts of soil erosion. Engaging in Friends' Paddle and Plant activities not only allows volunteers to connect with the river, but also helps build a sense of community, exercise water stewardship, and acquire hands-on experience in advancing the ecology of the river system.

In 2018, Friends established the Paddle and Plant program through a grant from the Chi-Cal Rivers Fund and have since joined forces with the Shedd Aquarium. Together we have expanded our reach to the Little Calumet River.

On-the-water action through our popular Canoe and Clean litter removal program and Paddle and Plant initiative are some of our most tangible forms of volunteer advocacy—individuals coming together, actively participating, and making a visible impact on the improvement of the river system.

You are invited to participate in any one of the paddling events planned through the end of the season this October. No paddling experience is necessary as Friends' adept canoe guides are on hand to ensure water safety as well provide keen insights about the river system and its surroundings. Go to chicagoriver.org for details.





Volunteers plant bulrush on the Little Calumet River at Kickapoo Woods.

RIFFLES & CURRENTS

FOAM FOODWARE BAN IN ILLINOIS

A new law will ban the purchase and distribution of polystyrene foam foodware in all state facilities and agencies effective January 1, 2025, for state agencies and January 1, 2026, for vendors. Signed into law by Governor JB Pritzker in August, the new law was a priority for the Coalition for Plastic Reduction, which is comprised of more than 35 organizations across Illinois, including Friends of the Chicago River. The law also requires state agencies to track and implement goals to reduce single-use plastic disposable foodware beginning in July of next year. Already, eight states and roughly 200 cities and municipalities have enacted bans on polystyrene foam containers. Friends' Executive Director Margaret Frisbie credits State Rep. Jennifer Gong-Gershowitz (D-17th District) and State Sen. Laura Fine (D-9th District) for their leadership in sponsoring the law in the General Assembly. Last year, a law was also enacted to ban single-use plastics in state parks and natural areas.

DURBIN BILL WOULD CURB PLASTIC POLLUTION

In August, U.S. Senator Dick Durbin (D-IL) introduced the Plastic Pellet Free Waters Act to stop companies from discharging plastic pellets into waterways. Plastic pellets, or nurdles, are the pre-production building blocks of nearly all plastic goods. The pellets are consumed by fish and marine life-and in turn, humans-and create additional damage to ecosystems. The proposed act would require the U.S. EPA to prohibit the discharge of plastic pellets and other pre-production plastic into waterways from facilities and sources that make, use, package, or transport pellets. Each year, it is estimated plastic pellet pollution contributes significantly to the 22 million tons of plastic that end up in the Great Lakes.

river LIFE

Double-crested cormorant

The double-crested cormorant is a very different kind of bird. They are both beautiful and gangly; strange yet well-designed; loved and, unfortunately, maligned. The best way to describe them is as a cross between an eagle and a goose.

The double-crested cormorant is a medium-sized water bird with a stocky body, long neck and tail, webbed feet, and a hooked bill for catching fish. The cormorant can be found fishing in rivers and lakes throughout the Chicago region—anywhere nesting habitat and food are plentiful.

Their shorter wings are not well-designed for long flights, but ideal for swimming and diving. They do migrate, but just far enough to find open water that is free of ice. Double-crested cormorants' four-foot wingspan is larger than some other species of cormorants.

These cormorants are entirely black except for a bare patch of yellow-orange skin around their mouth and some extra feathers which grow during breeding season. These nuptial crests, for which the species is named, are a double crest of white and black feathers. Adult males and females appear the same; however, the plumage of juveniles is a lighter gray or brown with a pale throat that darkens towards the belly. Breeding occurs along coastal areas as well as near inland rivers and lakes. They build stick nests in trees, on cliff edges, or on the ground if no predators are present.

Cormorants eat mainly fish which they catch by

swimming and diving. They will also eat frogs, crustaceans, and aquatic insects. If a cormorant catches a crayfish, they will slam it on the surface of the water to knock the legs off for easy swallowing. Like owls, cormorants regurgitate pellets containing bones and other undigested parts of their meals.

The cormorant's feathers are not waterproof and the bird gets waterlogged. After diving, cormorants must spend long periods of time with their wings outstretched to dry them.

Although it seems counterintuitive, not being waterproof is actually a hunting advantage for the cormorant. Getting waterlogged allows them to sink and dive more efficiently for longer periods of time and to catch more fish. They are able to dive to a depth of 25 feet and can remain underwater for over a minute. Their solid bodies and dense bones also contribute to their excellent diving skills.

The double-crested cormorant's numbers decreased in the 1960s due to habitat loss and the effects of DDT, a pesticide which decreased their birth rate. Colonies of cormorants have also been persecuted in areas where they are thought to compete with human fishing which scientific research does not support.

Recently cormorant populations have increased. They have benefited from the decreased use of contaminants, particularly DDT. For populations around Chicago, increased water quality and the addition of fish habitat has increased the available food supply, and aided their recovery. The number of fish species in the river system has gone from less than 10 in 1970 to over 70 species today. It is believed that the colonization of

the Great Lakes by non-native alewife
(Alosa pseudoharengus), a favorite food
of the cormorant, has also contributed
to their success.

Unlike ducks, cormorants don't preen their feathers to coat them with a thin layer of oil.

cormorant

Nannopterum auritum

llustration by Jen Pagnini

Double-crested

HIGH Water Marks

Friends of the Chicago River gratefully acknowledges all the ways members, donors, and partners helped us achieve our mission to improve and protect the Chicago River system for people, plants, and animals from March 11, 2023, through August 16, 2023. Individuals, businesses, and organizations who have given or pledged \$250 and above are listed below.

The Otter Society

The Otter Society is Friends' giving society and recognizes individuals, businesses, and foundations that contribute \$1,500 annually to the General Operating Fund or the Voice for the River Endowment. Chicago River Legacy members, who are thoughtfully providing for Friends in their estate plans, are also recognized as Otter Society members.

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HIGH Water Marks

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Calendar of Fall Events

Visit chicagoriver.org/events for new events, details, tickets, and registration.

World Migratory Bird Day Paddles

Saturday, October 14, 10 a.m. to 1 p.m. Launches on the Little Calumet River at the Kickapoo Woods Boat Launch and on the North Branch at the River Park Boat Launch.

Open House Chicago Events at the Bridgehouse Museum

Saturday, October 14, 10 a.m. to 5 p.m. and Sunday, October 15, 10 a.m. to 5 p.m.

Eerie Evening at the Bridgehouse Museum

Thursday, October 19 and Friday, October 20 Halloween events starting at 5:30 p.m.

Community Paddle

Saturday, October 21, 10 a.m. to 1 p.m. North Shore Channel at the Dammrich Rowing Center in Skokie.

Halloween Paddle

Saturday, October 28, 6 to 9 p.m. North Branch at the River Park Boat Launch.

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Apologue Liqueurs Arch Pet Food Black Ensemble Theater Chicago Fringe Opera Chicago History Museum Chicago Mahogany Tours Chicago Pizza Tours Chicago Red Stars Chicago Symphony Orchestra Craig Coit Jennifer Dotson The Eco Flamingo **Edgewater Candles** Sally Fletcher Frank Lloyd Wright Trust

Hotel Boulderado Intuit: The Center for Intuitive and Outsider Art The Joffrey Ballet Kendra Scott Kadeya Lake Geneva Cruise Line Lettuce Entertain You Metropolitan Brewing Molson Coors Moosejaw Patagonia PRP Wines Recreational Equipment, Inc. **Revolution Brewing** Robert Campbell Fine Portraiture Studio WIP Tours with Mike Two Brothers Brewing Two Eagles Distillery

Wendella Tours and Cruises

WM

Zanie's

Harbor Shores on Lake Geneva

Horse Thief Hollow

*deceased

We apologize if any names have been omitted, misspelled, or otherwise incorrectly listed. If you feel an error has been made, please contact friends@chicagoriver.org so that we can correct our records. Return Service Requested

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BE A FRIEND OF THE CHICAGO RIVER!



Spooky Invitations for You

Eerie Evening at the Bridgehouse Museum

Creep, crawl, and have a ball at the 2nd Annual Eerie Evening, a frighteningly festive fundraiser on October 19 and 20 to benefit our McCormick Bridgehouse & Chicago River Museum. Immerse yourself in bone-chilling stories of Chicago's past and enjoy drinks, fare, and entertainment. Eerie Evening tricks and treats are open to those 21 years and older. Register now at chicagoriver.org/events.

Join us for the Halloween Paddle

Accompany us on October 28 for our final canoe event of the year. This fun and spooky river paddle launching at 6 p.m. from River Park in Chicago is a festive way to celebrate the season. Costumes are encouraged but not required. Register now at chicagoriver.org/events.



Membership opportunities on page eleven.