



2015 Summer  
Edition



CRANBROOK EDUCATIONAL COMMUNITY

**SUSTAINABILITY AT  
CRANBROOK...AND BEYOND**

# CRANBROOK

**WE THINK! WE LEARN! WE WORK!  
WE PLAY! WE GIVE!  
SUSTAINABILITY**



**SEE NATURE LIKE NEVER BEFORE!**  
A Backyard Biodiversity Festival



August 7: 5pm-10pm; August 8: 10 am-5pm with 6am Morning Bird Walk @Cranbrook Institute of Science  
See Page 2 for Additional Event Information and how you can get involved.  
Or visit: <http://www.batconservation.org/education/bioblitz>

## DUMPSTER DIVING AT CRANBROOK!

*"After attending the Green Schools National Conference in Virginia, I heard about the various schools doing dumpster dives to raise awareness of recycling and sustainability. I was very excited to see Cranbrook follow suit! I was thrilled with the turn out and excited to see the interest from our students. I found some areas that we could improve upon and felt that the community needs to be more informed on what we can and can not recycle. This was just a stepping stone for us...I look forward to seeing the changes that this experience will bring to Cranbrook!"* Trisha Hourigan

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Cranbrook Dumpster Divers Pictured: Arlyce Seibert, Director Cranbrook Schools, and Trish Hourigan (Brookside ECC Faculty) See Page 3-Complete Story



**SEE NATURE LIKE NEVER BEFORE!**  
**A Backyard Biodiversity Festival**



## **BioBlitz--A Backyard Biodiversity Festival**

**FREE!**

**August 7th, 2015: 5 pm-10 pm**

**August 8th, 2015: 10 am-5 pm**

**with 6 am Morning Bird Walk**

**@ Cranbrook Institute of Science**

Join us for Cranbrook's first ever BioBlitz--a 2-day nature event that invites the community outdoors to see the plants, animals and bugs living on campus. Scientists will take groups through citizen science activities to identify and record species, presenters will showcase live animal programs and artists will teach participants how to observe and express creativity through nature.

We're sending out the call to anyone who is interested in helping to make this year's BioBlitz a great success. Volunteer opportunities are available for educators, nature-lovers, and enthusiasts. Make sure to share the word with friends, campers, or students who would love to be a part of the action. Contact Danielle Todd at 248-645-3232 or [dtodd@batconservation.org](mailto:dtodd@batconservation.org) to learn more.

**Special Thanks to the 2015 BioBlitz Event Organizers:**

**Rob Mies, Executive Director**

**&**

**Danielle Todd, Director of Communications Organization for Bat Conservation**

# Cranbrook Dumpster Diving A Success!

“Cranbrook Pickers” Dumpster Diving Team consisted of 40+ fearless administrator, faculty, staff and students. (See Pages 4-6). After being heavily recruited, drafted and fully persuaded of the benefits of digging through waste, everyone accepted the challenge to unite and participate in Cranbrook *first-ever* Dumpster Dive. Special thanks to the Brookside Early Childhood Center Environmental Club for selecting the Team name.

Aside from each participant’s desire to climb into a dumpster, experience the sweet aroma of Cranbrook refuse and recycling and dig and sift through waste, the purpose for the “pilot” recycling sustainability initiative was threefold:

- 1) To provide a teachable, “hands-on”, all-in engaging exploratory dumpster dive experience for faculty, staff and students to learn more about actual recycling at Cranbrook.
- 2) To increase faculty, staff and student awareness, promote community-wide teamwork and dialogue on recycling and sustainability at Cranbrook.
- 3) To encourage dialogue and feedback on how we can all communicate and inspire behavior changes to help achieve the desired (long-term) goal of zero waste to the landfill.

After getting fully dressed in gear, team members focused on examining and evaluating waste items to determine if items being hauled away should instead be recycled. It was very encouraging to witness the dialogue and collaborations taking place between the team members as they sorted through the waste and recycling. Students, faculty and administrators could be heard and seen examining the source of the garbage and having discussions about whether or not we could re-use the items or eliminate them altogether.



Cranbrook Kingswood Environmental Lite Club (LITE) also participated in the Dumpster Dive. LITE President Clara Munkarah was so inspired, 2 days later she came up with the idea to inspire Cranbrook Schools Boarding students to recycle during the dorm move-out. With the assistance of the LITE Club and Border students, she led the planning and execution of a mini-year end dorm recycling effort. In addition to talking to fellow students, Clara also spoke with the Dorm office leadership about the Dumpster Dive experience. Clara and the LITE Club members enthusiasm for recycling was so contagious, after the CK Borders decided to make flyers to put up around the dorms to promote and encourage recycling.

*As a community we can do a better job of recycling. Also, are there ways we can reduce the amount of trash and recycling we generate?* Winnie Hancock

Julie Schulze, Brookside School Faculty shared: *“The Dumpster Dive experience was a wonderful opportunity to bring so many different departments together. It was inspiring to know so many of us care about recycling. At times it can seem like a small act; throwing a piece of paper in the blue bin instead of the black one, but after seeing all of the trash and what we recycled, what really stood out was how all of the little actions really do amount to something so much bigger. It was certainly worth it!”*

*“The dumpster dive was a great learning experience. I was surprised how all parties involved handled the recycling materials.”* Dan Owens

*“I thought it was great to see individuals from all over the Community come together to participate in the dumpster dive. I think all the individuals involved in it made fun out of a messy situation.”* Bryan Opalko

*“I found this exercise very illuminating. From the random bags of trash selected for us to examine it was clear that our community needs a refresher regarding how to properly sort trash items for disposal.”* Susan Griffin

*“It was surprising that so many food containers cannot be recycled because they have food on them - this is a contaminant for recycling because it gums up the equipment. If they are simply rinsed, most containers can be recycled. It was also good to learn that if a plastic container has a number on it (in a little triangle) then it can be recycled. In the past some tubs and plastic containers were not allowed, but now they are!”* Craig Hoernschemeyer

**Mission accomplished!** Another example of the spirit of community, unity and collaboration at Cranbrook from all levels. We Think! We Learn! We Work! We Play! We Give! Sustainability at Cranbrook!



# CRANBROOK PICKERS 2015

## *Inaugural Dumpster Dive Team*

Jack Allan	CK Student/LITE Club
Sean Anderson	CK Student/LITE Club
Jordan Andrews	CK Student/LITE Club
Evan Arora	CK Student/LITE Club
Janet Beylin	Cranbrook Institute of Science
Ben Boss	CK Student/LITE Club
Wendy DeLaRosa	Sustainability Office/Project Support
Winifred Davies-Hancock	Brookside School Faculty
Norma Jean Evans	Director, Sustainability
Tom Garcia	CK Senior May Student
Marsha Gillman	Academy of Art/Development
Susan Griffin	Director, Summer & Special Programs
Jayne Hammond	Event Coordinator
Craig Hoernschemeyer	Project Manger, Capital Projects
Trish Hourigan	Brookside School Faculty
YiChieh Huang	CK Senior May Student
Daniel Joh	CK Student/LITE Club
Phyllis Kendrick-Wright	Sustainability Office/Project Support
Rachel Lee	CK Senior May Student
Gillian Levine	CK Student/LITE Club
Ryan McGregor	CK Senior May Student
Steven Meng	CK Student/LITE Club
Allison Mitchell	Chartwells Dining
Steve Mueller	Landscape Coordinator
Clara Munkarah (President of LITE)	CK Student/LITE Club
Bryan Opalka	Human Resources Generalist
Dan Owens	Housekeeping /Moving Crew Supervisor
Charlie Peck	CK Senior May Student
Avish Persaud	CK Student/LITE Club
Emma Ponicall	CK Student/LITE Club
Rhonda Reed	Event Coordinator
Pam Ruthven	Chief Financial Officer
Betsy Saylor	CK Student/LITE Club
Brendan Sayre	CK Senior May Student
Julie Schulze	Brookside School Faculty
Arlyce Seibert	Director, Cranbrook Schools
Rod Spearin	Chief Operating Officer
Sharon Suess	Brookside School Faculty
Dr. Darryl Taylor	Director, Horizons-Upward Bound
Suzanne Tennet	Cranbrook Schools Faculty
Sarah Turner	Assistant Director, Cranbrook Academy of Art
Sara Tweed	Brookside School Student
Daniel Williams	Physical Plant Director
Beatrice Yarema	CK Senior May Student



**CRANBROOK  
DUMPSTER DIVE  
2015**







Pictured L to R: Zartavia Howard (CAA '16 2D), Alyssa Bliven (CAA '16 Metals) and Melannie James (CAA '16 Metals) with Sustainability Director Norma Jean Evans.

## Brookside School

Does it Again!!

**Michigan Green Schools highest level, Emerald Award Recipient**

**Congratulations to Brookside School Environmental Club and Leadership.**

**Thanks for all you do everyday to make Brookside School an eco-friendly place to work!**

## Cranbrook Academy of Art Materials Exchange

*“There’s Life Left In those Materials and Scraps!” - Julie Fracker*

Continuing to help others and advance the mission of sustainability, Cranbrook Academy of Art students ended the academic year with another successful Materials Exchange and Donation Program. On May 11th and 12th, Cranbrook Academy of Art students were asked to gather usable art materials for the annual Materials Exchange Program. All of the materials gathered were made available to other Academy students, the Cranbrook Community, and several area charities and arts organizations. The following non-profit organizations received usable items to help support their operations:

### **Matrix Theatre Company**

Website: [www.matrixtheatre.org](http://www.matrixtheatre.org)

### **A Host of People**

Website: [www.hostofpeople.org](http://www.hostofpeople.org)

### **Children’s Hospital of Michigan Healing Arts Program**

Website: [www.childrensdmc.org/healingartadvisor](http://www.childrensdmc.org/healingartadvisor)

Special Thanks to **Julie Montgomery** and Bravo to **Cranbrook Academy of Art Students** for making a difference in the lives of one another and others!!

## Brookside *Busy Bees* Environmental Club

The Brookside Busy Bees Environmental Club inaugural year was a resounding success! The Club was open to third through fifth graders and met once a month starting in January. The goal was for students to develop ecological awareness and social responsibility for their environment. The Busy Bees made personal connections to the value of sustainability, native plants and recycling. The highlight was when the kids filmed and presented a video for the Henry Booth Clean-up assembly to the entire school. We are so excited about this new Brookside tradition and look forward to many years to come!

**Trisha Hourigan**

**Full Day Pre-K Teacher  
Brookside - ECC**

# Cranbrook Kingswood Middle School for Girls

## *Sustainable Design - Inside & Out*



**Pictured: South side of the Cranbrook Kingswood Middle School For Girls. Photo by Frank Ohms**

Around the world faculty, staff, students, architects, engineers and construction teams engage to design and build sustainable schools. They focus on ensuring that these schools fulfill the program needs of the educators, with spaces conducive to learning and creativity in a healthy environment. Four years ago, after months of collaborative design and construction, Cranbrook Kingswood Middle School for Girls opened with many sustainable features inside and out.

Taking its modern design cues from Kingswood, the middle school is an up-to-date sister campus that encloses 47,000 square feet in a one story masonry building. It includes administrative offices, 15 classrooms (3 science, 3 English, 3 History, 3 Math, and 3 Language), 3 common rooms (also used as Drama, Choral and Dance classrooms), 2 Computer rooms, 1 Art classroom, 1 Library, 1 Dining Hall and Serving area, 1 Gymnasium, 1 Locker room, 1 Fitness classroom, and 1 faculty workroom.

### **Exterior Sustainable design features include:**

- Site selection - re-use a site that had previous building (tennis courts)
- Site preservation - preserve and restore adjacent landscape (McLean Field)
- Site development – maximize open space, keeping staff parking at Kingswood lot
- Alternative transportation – pedestrian access from path to Kingswood parking lot
- Storm water design – control quantity and quality by filtration in rain gardens and a detention pond, recharging the ground water, before entering the creek
- Heat island effect – the light colored roofing, shade trees and shrubs, keeps site cooler
- Light Pollution reduction – site lighting shines downward, not into sky, building acts as a lantern in the landscape

### ***Did You Know?***

... a building made of durable locally sourced low-maintenance materials, that conserves water and energy, and enables a healthy indoor and outdoor environment is a Sustainable Building?

- Water efficient landscaping – native plantings, woodland landscape on north, irrigation used only the first few years to get plants established, then no irrigation on landscape
- Water use reduction – low-flow valves and automatic sensors on toilets, sinks, and showers
- Energy efficiency – commissioning of building energy systems, and optimized energy performance controls, water and gas meters for data collection
- Construction waste management – pollution prevention, minimize construction waste, collection of recyclables – part of Cranbrook’s waste management system
- Building materials – utilizes post consumer and pre-consumer waste in manufactured products, renewable materials (wood paneling), regional materials (less shipping)



### **Pictured From Top To Bottom:**

- ♦ **The Peter D. and Julie Fisher Cummings Lobby**
- ♦ **Typical Middle School For Girls Classroom**

### **Interior Sustainable design features include:**

- Indoor air quality – meets high quality performance standards
- Outdoor air delivery monitoring – sensors and filters on roof top air handling equipment, safe and efficient, increased ventilation
- Operable windows – operable windows with natural ventilation during temperate months, passive solar heating in winter at corridor floors
- Construction management Indoor Air Quality plan – during construction, and before occupancy (cleaning)
- Low-emitting materials – adhesives, sealants, paints, coatings, carpets, composite wood and laminates, fabrics
- Controllability of systems – motion sensors on lighting, variable air volume controls on air handling systems
- Thermal comfort design – control technologies and software for monitoring the operations
- Daylight - over 75% of the spaces have natural daylight
- Views – over 90% of the spaces have views to the landscape

This sustainable building design model serves as a benchmark for future campus sustainable building designs, construction and renovation.



## *Director's Blog: Sustainable YOU*

### **Cranbrook: Dumpster Diving in Unity!**

Over the past 20 years, Cranbrook has afforded me some amazing opportunities. I would have to say the 2015 Dumpster Dive will be one of the most memorable events for me at Cranbrook. In a world where “me, myself and I” is usually the focus, more often we lose sight of the power of “we.”

I grew up with a foundational belief that (“it takes a village or team”) as it relates to *sustainable* success within family, sports and business. The unified collaboration, communication and level of “we” displayed in and around the dumpster dive site was an epic illustration of team and community.

Faculty, staff, and students in the community came together. No one was concerned about position, title, division, department or seniority. It was “Team and Community”. We did not come together to work on a glamorous project, the project was messy. Yet, members of the community came together to promote awareness, get an understanding and advance the mission of sustainability at Cranbrook. Mission accomplished!

Best of all, I believe the Cranbrook Pickers Team members left with a greater appreciation for each other and how they can each use their individual positions on a daily basis to promote and work together to make a difference in sustainability at Cranbrook and beyond. **I know I did!**

I would like to extend a heartfelt “Thanks” to each individual who contributed to the success of the **inaugural** Dumpster Dive. There really is no place like Cranbrook!!

**Together,**  
**WE THINK! WE LEARN! WE WORK! WE PLAY! WE GIVE!**  
**SUSTAINABILITY**



**The Sustainability at Cranbrook Newsletter is published for Cranbrook Educational Community.**

**Rod Spearin**  
Chief Operating Officer

**Norma Jean Evans, Editor/Publisher**  
Director, Sustainability & Business Services

**Phyllis Kendrick-Wright, Design Editor**  
Business Services Administrator

**Craig Hoernschemeyer, Julie Fracker, Julie Montgomery**  
Contributing Writers



### **SUSTAINABILITY CHAMPIONS CHALLENGE**

Tell us how **you** are making a difference as you think, learn, work, play, and give towards a sustainable Cranbrook and beyond.

**Get Involved Today.**

Email: [sustainability@cranbrook.edu](mailto:sustainability@cranbrook.edu).