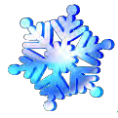


Keelhauler's Ka-news



DECEMBER, 2014



Next Club Meeting: WEDNESDAY, DECEMBER 10TH
NOTE: DUE TO A SCHEDULING KERFUFFLE THIS IS A CHANGE IN DATE FROM WHAT IS IN THE YEARBOOK AND TRIP SCHEDULE

Doors open at 7:00 PM; dinner is at 8:00 PM

At Middleburg Heights Community Center, 16000 East Bagley Road

Club Meeting - Program: Christmas Party Potluck Dinner

A-E: Dessert or Fruit

F-L: Main dish or casserole

M-R: Salad or vegetable

S-Z: Bread or appetizer

The club will supply beverages, plates and plastic ware.

[Map to Middleburg Hts Meeting](#)

All meetings are open to guests. Invite a prospective member!

MESSAGE FROM THE PRESIDENT

By Karl Nelson



HAPPY HOLIDAYS—I hope everyone had a happy Thanksgiving. As I write this several weeks before Thanksgiving, Linda and I are eagerly awaiting the arrival of daughter, son-in-law, and 4-year old grandson, Mark, for Thanksgiving.

Orange Pool Open House

Since becoming KHCC President, I have made more trips north of I-76 in the past 15 weeks than in the past 15 years. I accepted Sandra Andrew's invitation to help celebrate the reopening of the Orange pool after their renovations and improvements. They celebrated with a "first splash" as members of the swim and dive teams took the first plunge into the pool. The pool and diving well have been repaired and repainted, the locker rooms were renovated with new lockers, there is a new ADA accessible entrance, changing rooms and bathrooms, the old wooden truss roof that was becoming unsafe was replaced, and new bleachers were installed. I joined members of a local SCUBA club to show the Orange community how their pool was being used. I met Laura Guentner, Director of the Orange Community Education and Recreation; Sandra Andrews, Aquatics & Sports Coordinator; Edwin Holland, Orange School Superintendent and other OCER Commission members.

It has been sometime since I was last at the Orange pool, maybe 7-8 years. On the way back to Canton, I did miss the exit to 8 South. I didn't know I was lost until I was found when I got on I-77 South west of Akron.

KHCC Board Meeting

The next trip north of I-76 was to a Board meeting. A KHCC member had requested we consider a reduction in the membership dues and the \$1.00 PayPal fee for renewals. The Board decided a reduction in membership fees was not warranted. However, the Board agreed to waive the \$1.00 Paypal fee.

KHCC Christmas Meeting

Community Room C at the Middleburg Heights Community Center has been reserved for Wednesday, December 10 from 7-9 PM. This is not the date published in the 2014 trip schedule. The room was not available on December 9th.

Lower Yough Permits

Background: The club has obtained permits for the June, July and August trips. There was a time [Before JD; before Jordan and before Amos—the park rangers who guard the path to the river] when it was difficult to obtain permits. Paddlers without permits would routinely scramble to put on before 8:00 AM or wait until 3:00 PM to put on.

That is no longer the case. As Jack—the long-time shuttle bus driver—says: "Saturday is the new Thursday." There was only one day in 2014 when all the permits were purchased and not all of the KHCC permits were claimed this year.

The Board decided not to purchase launch permits for 2015. That should make it easier for trip leaders—they won't have to collect permit fees and send a check to the club.

Programming for Monthly Meetings

Programming for the monthly meeting is difficult. Please let me know of possible programs.

Michael and I had seen Anthony Smith's 2014 Ohio Whitewater Kayaking video [<http://www.youtube.com/watch?v=dRQ4XcE3KGA&feature=youtu.be>] on the Paddler group on Facebook. I was able to get in touch with Tony and invited him to show his video at a meeting. Initially he was unable to make the November 10th meeting; however, I did have an e-mail from him that morning indicating he was available [Sorry there wasn't more advanced warning]

It was fun to have a young enthusiastic kayaker talk about his experiences on local rivers. He has basically gone from the Rocky River and Mohican to Tinker's Creek and the Sheraton Section since the snow melted. Hopefully, he will show up at one of the pool sessions and some of you more experienced boaters will show him how to roll.

HELP WANTED: Vermilion Race

Last year's coordinator is no longer in the area. If a passionate organizer is not identified by mid-December it will be necessary to cancel the race.

HELP WANTED: Instruction Webpage

Katie Dudley expressed an interest in maintaining the Instruction webpage. However, an opportunity presented itself last week. Katie and her husband are moving to West Virginia next month and she will not be able to commit to keeping up the instructional portion of the website for the next season. We are looking for a person to keep the Instruction page up-to-date.

Has Your Membership Expired?

Your 2014 membership ended on October 1st.
There are still a few members who have not paid.

Your monthly password e-mail will warn you if this is your last newsletter.

Since I will not be around to get your check until December 21st please try to pay \$20 on-line using Paypal.

You can use any credit card or a Paypal account and renew using this link:

<http://keelhauler.org/thanks.htm>

OR

If you still want to mail a check please send a \$20 check for your **2015 Membership Dues**

To:

Keel Haulers Canoe Club

1649 Allen Dr

Westlake, OH 44145-2506

To see whether you have paid or not, check this updated file:

<http://www.keelhauler.org/khcc/memb/khint.pdf>

This file is password protected for your security.

User Name: "dir" and the current 2014 password can be found on page 20 of our yearbook or in our monthly newsletter e-mail. If the last column by your name says 4 and not 5, then you are not recorded as paid for 2015.

Jim Hunt is completing the **2015 yearbook** and there is no reason for you to have incorrect information or not even listed in the new yearbook. Take a look at all your membership information using this link. http://www.keelhauler.org/khcc/memb/Members_Allfields.pdf

Note: Your information spans 2 pages.

Only paid-up members will be listed in the yearbook, the cut-off date for new yearbook is 12/26.

John Kobak - Membership Chairman

View our Mexican Trip Blog

<http://khemexico10.blogspot.com/>

PHOTOGRAPHS NEEDED

Work on the 2015 Yearbook is starting. Photographs are always needed. If you have taken photographs this year that you think would be good yearbook candidates, e-mail them to me or send me a link to your online files. Note that at times I have problems receiving files via Apple Mail.

Photos need to be in .jpg format and be larger than 500 kb in file size. Generally photos from digital cameras are better than those from cell phones.

Make sure for each photo you also send me: who took the photo, who is in the photo, what river the photo was taken on, and what rapid/stretch it was taken on.

Jim Hunt
jhunt4115@yahoo.com

KEELHAULER MEETING MINUTES November 12, 2014 Respectfully submitted by Donna Homberg

10 people in attendance

Informal meeting followed with a review of a Keelhauler Board Meeting on November 3.

It was noted that the decision was made to waive the pay pal fee for dues after a request to review the balance in the treasury vs. annual membership fee. This request was made by a member of the club.

The Christmas Party has been rescheduled for Wed, Dec. 10th due to room availability at the Middleburg Heights Center. A pot luck is planned and all are encouraged to attend.

Lower Yough Permits will not be obtained in advance this next year d/t the reduced number of boaters on the Yough. The park office is able to accommodate boaters as they request to paddle/raft the river.

A Vermilion Race coordinator has not come forward at this time so please consider filling this position with the help and assistance from many past volunteers. There are many who continue to support this annual race and enjoy this jump into Spring time boating. The weather can be cold and the water level can be low but when the sun shines, it's a good paddle time.

Matt Muir will continue writing the Conservation Page from Philadelphia. Distance does not become an issue for this part of the Newsletter. Thanks,
Matt.

Orange Pool held an open house for the new renovations that were recently completed. Karl Nelson represented the Keelhaulers and the use of the pool for roll sessions.

Program was by Anthony Smith and very enjoyable. With the use of his Go-Pro Helmet Cam and narration along with music, we were able to paddle down the Black River, Mohican, Allegheny River, Tinkers Creek and the Rocky River. We also walked along the Towpath to the Cuyahoga River. Welcome anytime, Anthony.

Keelhaulers Canoe Club Treasurer's Report
8---Nov---2014
By Pam Poljak

| | |
|--------------|---------------------------|
| CDs (3) | \$6,771.33 |
| Checking | <u>\$5,906.02</u> |
| Total | <u>\$12,677.35</u> |

NEWS FROM THE BIRMINGHAM CANOE CLUB

1

[Nov. 5th Chattooga Decision from 4th Circuit Court of Appeals](#)

Mon Nov 10, 2014 9:53 am (PST) . Posted by:

["Lee Killinger" leekillinger](#)

Excerpt (link to full 31-page opinion is below):

In 1974, Congress selected the 57 miles of the Chattooga River (the "Chattooga" or the "River") and 15,432 acres of adjacent land for preservation under the Wild and Scenic Rivers Act (the "WSRA" or the "Act"), 16 U.S.C. § 1274 et seq. (2006). Since then, the United States Forest Service (the "Forest Service") has managed the Chattooga under the WSRA.

Prior to 2012, longstanding Forest Service policy allowed non-motorized rafting or "floating"¹ on the lower portions of the Chattooga, but prohibited the practice on the 21-mile northernmost section of the River (the "Headwaters"). In 2012, after a lengthy review, the Forest Service revised its management plan for the Chattooga to allow floating on most of the Headwaters during the winter months, when flows are highest and conditions are best.

American Whitewater, 2 Plaintiff-Appellant, argues that the revised plan does not go far enough and that the remaining limits on floating are inconsistent with the WSRA and arbitrary and capricious in violation of the Administrative Procedure Act

¹ We use the term "floating" throughout to refer to the class of hand-powered, river-going recreational activities that includes canoeing, kayaking, and whitewater rafting.

2 Together with several other not-for-profit hobbyist and interested individuals, "American Whitewater."

(the "APA"). 5 U.S.C. § 702 et seq. (2006). On the other hand, two intervening parties, Georgia ForestWatch ("ForestWatch"), a not-for-profit environmental group, and the Rust family (the "Rusts"), argue that the Forest Service's decision to allow any floating already goes too far. They contend that the WSRA prohibits any floating on the Headwaters whatsoever, and that the Forest Service violated the National Environmental Policy Act ("NEPA"), 42 U.S.C. § 4321 et seq. (2006), in the course of reaching its decision.

> The district court rejected both sets of challenges and found that the Forest Service's revised plan "carefully balance[s] the wide-ranging interests advocated by the several parties and participants." *American Whitewater v. Tidwell*, 959 F. Supp. 2d 839, 860 (D.S.C. 2013) ("Tidwell"). We agree with the district court's well-reasoned opinion and affirm.

> <http://www.ca4.uscourts.gov/Opinions/Published/131960.P.pdf>
<<http://www.ca4.uscourts.gov/Opinions/Published/131960.P.pdf>>

Low Head Dams From Jim Hunt and Borrowed from American Whitewater.....

From American Whitewater:

Our latest research partner is Ed Kern, who is working towards a Masters Degree in civil engineering at Brigham Young University in Utah. His research models dam retrofit solutions to improve safety. The site contains a lot of useful information on dam hydrology.

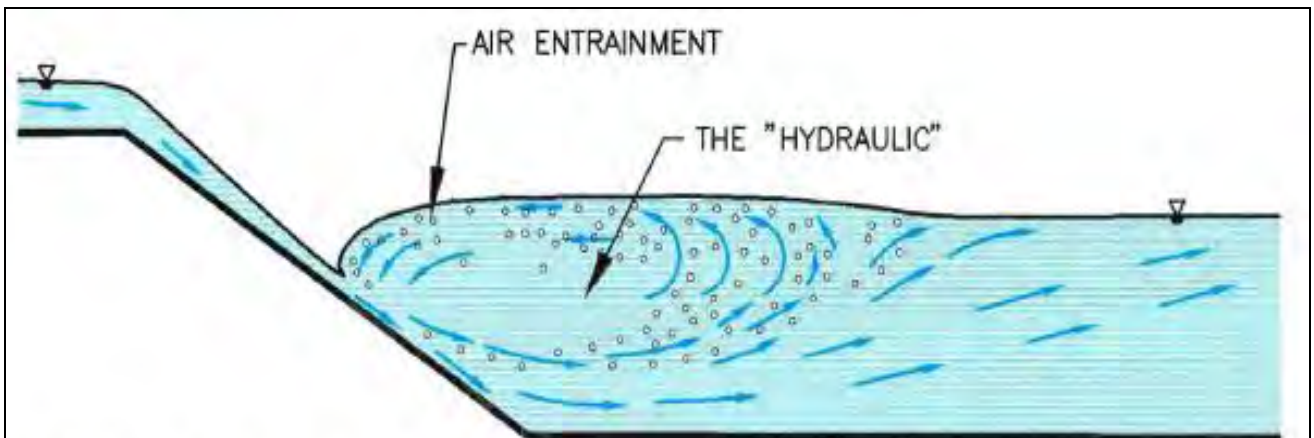
Their web site is: <http://krcproject.groups.et.byu.net/>

Dangerous Currents at Low-head Dams

On 1-Aug-10 a couple were kayaking down the Jordan River south of Salt Lake City. Just after passing beneath the bridge at Winchester St. their kayak capsized. The couple tried to swim to safety, but by the time the fire department arrived, the couple had drowned. Their bodies were recovered less than 20ft from the point where their kayak had capsized. The couple had become trapped. They were not trapped by solid objects, but by a dangerous current present in the river. This dangerous current developed just downstream of a small drop less than 3ft high as seen in Figure 1. The water on the surface of the river just below the drop was not moving downstream, but was moving upstream, back toward the drop. Figure 2 shows a longitudinal view of this type of current; due to the recirculating nature of the current it is often called a "roller" or "hydraulic".



Figure 1 - A couple drown at this site in August 2010.



Courtesy of Wright Water Engineers, Inc. and ASDSO.

Source: Wright, Kenneth R., Kelly, Jonathan M., Houghtalen, Robert J., & Bonner, Mark R. "Emergency Rescues at Low-Head Dams." Paper presented at Dam Safety 1995, the 12th annual conference of the Association of State Dam Safety Officials, Atlanta, GA, September 1995.

Figure 2 - Profile view of a "roller". Courtesy of Wright Water Engineers, Inc. and ASDSO.

An important phenomenon responsible for dissipating energy in a channel is the hydraulic jump. A hydraulic jump occurs in a channel when shallow, high velocity (supercritical) water meets slower moving (subcritical) water. The short and turbulent transition between the two water depths is called a hydraulic jump. An image of a hydraulic jump can be seen in Figure 3. When there is a large amount of excess energy in a channel it can be dissipated by a hydraulic jump. At many overflow structures, especially large ones, a stilling basin may be installed to control and confine the resulting hydraulic jump. At many smaller low-head structures stilling basins are not installed, as a result the hydraulic jumps near these structures may not be well controlled. If the high energy water flowing over a drop structure (headwater) can force the water away from the downstream

face of the structure, then a "fully developed" hydraulic jump can occur, much like the one in Figure 4. A fully developed hydraulic jump is relatively safe for human passage.



Figure 3 - A hydraulic jump in the lab. Flow moves toward the right.

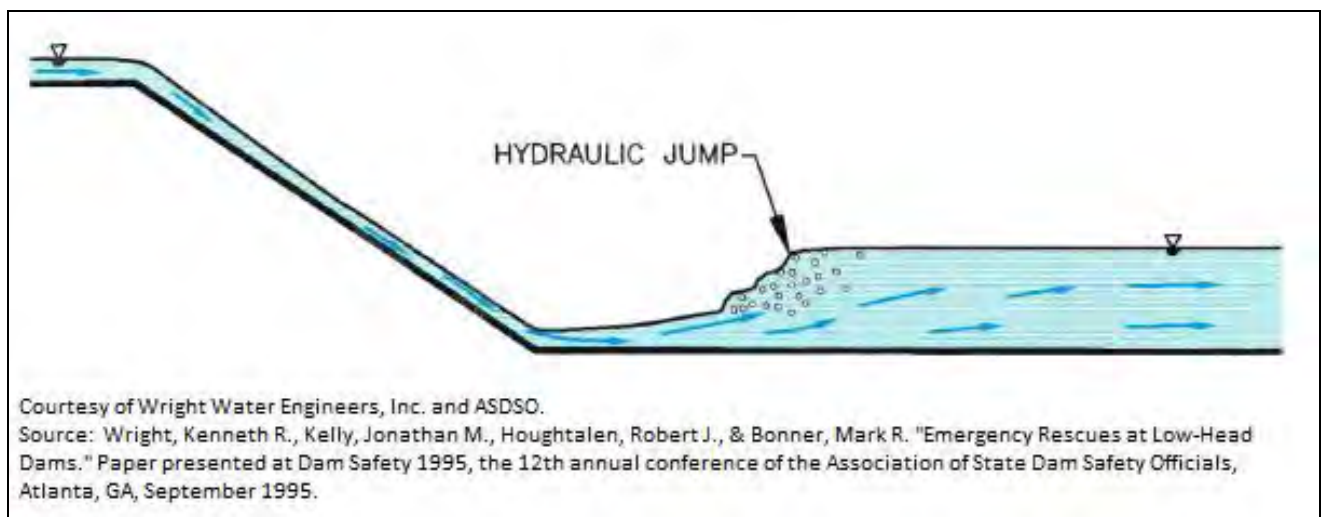


Figure 4 - Profile of a "swept out" hydraulic jump.

The current can become dangerous when the water downstream of the structure (tailwater) is too deep for a fully developed hydraulic jump to form. Figure 5 shows the situation where the current may pose a significant public safety hazard. This current occurs when the falling water, or nappe, meets a body of slow moving water and travels to the bottom of the channel. The water entrains a significant amount of air as it plunges to the bottom of the channel. Momentum causes the air entrained water to travel downstream along the bottom of the channel. Once the buoyant force of the entrained air can overcome the inertial forces of the water, it will begin to rise. The force of the rising air creates a strong current. By the time this current has reached the surface it may be a significant distance downstream of the drop structure. Some of this water that has been forced to the surface will double back toward the drop structure creating an upstream current on the surface of the water. This type of current is a "submerged" hydraulic jump. Energy is being dissipated, but the headwater does not have enough energy to push the tailwater away from the face of the structure.

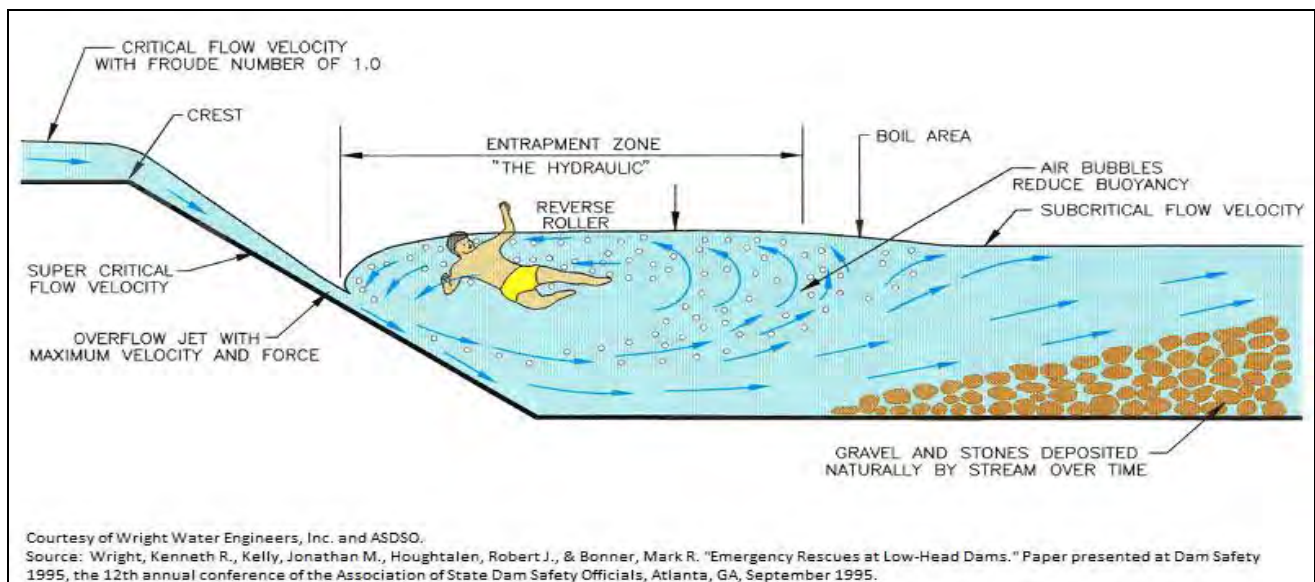


Figure 5 - Anything that floats may get trapped in a submerged hydraulic jump.

There are a myriad of ways to prevent a submerged hydraulic jump from forming, however most solutions have serious drawbacks. Some points to consider when designing a retrofit include: cost, safety, energy dissipation, scour, sediment deposition, variable flow, fish passage, effects on headwater depth, and ice passage. For example, the current at Winchester St. develops just downstream of a box culvert, so any changes to headwater depths would be unacceptable. To recommend mitigation measures for the dangerous current at Winchester St. on the Jordan River, a 1:23 scale model was built and tested by John Guymon in the BYU fluid mechanics laboratory. John's model revealed that an apparent scour hole and deposition zone immediately downstream of the structure contributed to the formation and strength of the submerged hydraulic jump as seen in Figure 6. When the deposition was removed in the model, it was found that a weakened submerged jump occurred. If the deposition was left in place and the scour hole filled, a fully developed hydraulic jump occurred right at the face of the structure in the model. Although a fully developed jump at the face of the structure would pass a human, it is sensitive to tailwater depth, and would be susceptible to developing a submerged jump with even minor changes in the channel. With the model scour hole filled and the deposition removed, a swept out jump occurred a safe distance from the face of the structure. If the scour hole were to be filled, the material would have to be grouted into place to prevent scour or foot entrapment. A picture of the model can be seen in Figure 7.

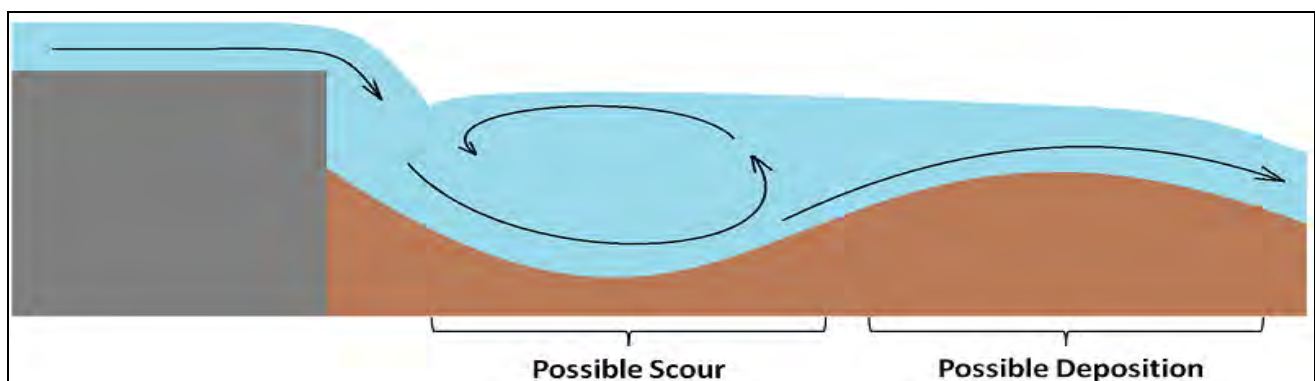


Figure 6 - Depiction of Scour and Deposition Zones.

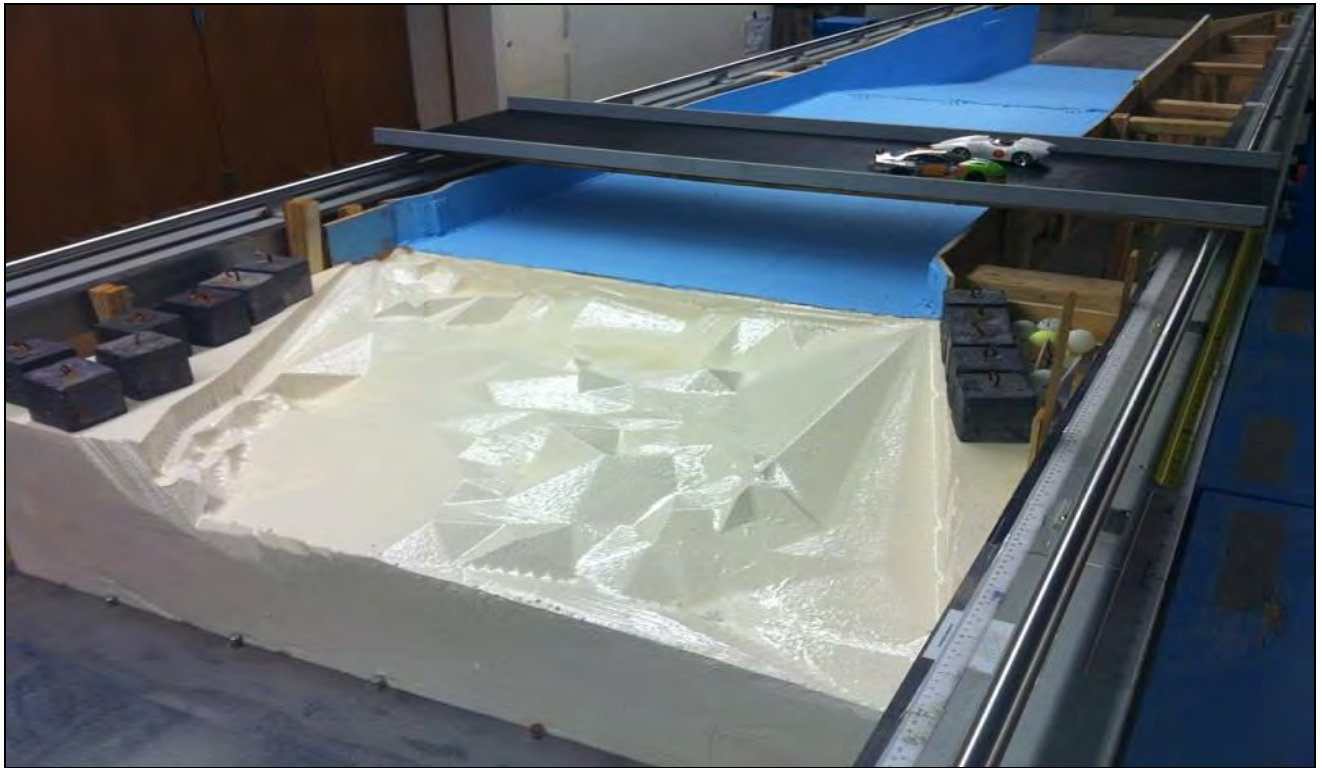
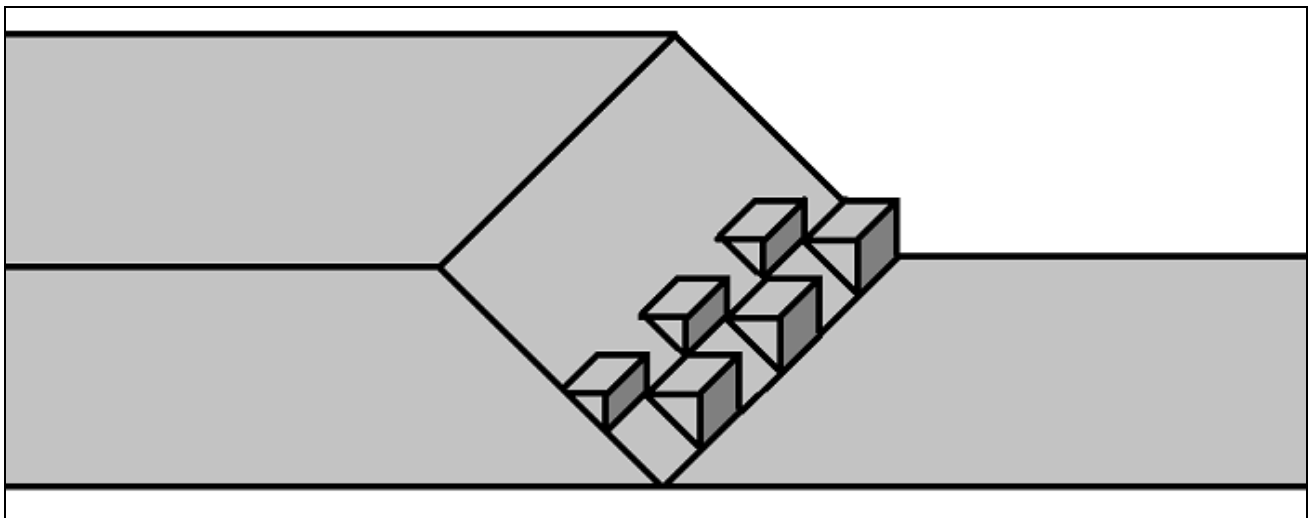


Figure 7 - 1:23 scale model of the drop at Winchester St. Flow Starts at the top right and flows toward the bottom left.

A promising solution that may be applied to any structure developing a submerged hydraulic jump is currently being developed and tested here at BYU. It is a design based on a crest modification used in the Northwest to safely pass juvenile salmon downstream; a lip is added to the spillway to redirect the velocity of the plunging nappe. A rough image of the concept can be seen in Figure 7. By nearly eliminating the downward velocity component in the plunging nappe, it may prevent air entrained water from traveling downstream along the bottom of the channel and prevent a boil area (Figure 5) from forming. It may also cause a swift downstream velocity along the channel surface, ensuring the safe passage of people.



❄️ ❄️ Happy Holidays! ❄️ ❄️

POOL SESSIONS

LAKWOOD HIGH SCHOOL POOL

Nov 22, 2014
Dec 20, 2014
Jan 17, 2015
Jan 24, 2015

Feb 14, 2015
Feb 28, 2015
Mar 07, 2015
Mar 15, 2015

The time of the sessions would be 3pm-5pm, doors opening no earlier than 2:45pm.

Saturday Pool time starts at 3:00 PM and ends promptly at 5:00 PM. Cannot enter the building until 2:50 PM. All must shower and be out of the building by 5:15pm. A charge of \$6 per person per session covers the use of the pool. Please remember **helmets are required**.

Directions to Lakewood High School Pool

Lakewood High School is at 14100 Franklin Blvd., the pool is located in the back of the High School, so entering at the Robinwood Ave. entrance is easiest, especially when coming from I-90. Exit from I-90 at the Bunts Rd./W 140th St. Exit and head north on Bunts to Madison Ave. Turn left on Madison Ave. and head one block to Robinwood Ave. Take a right on Robinwood Ave., which dead ends into the pool entrance. Kayaks should be brought through the delivery entrance/emergency exit, which is located just to the east of the Robinwood entrance. Pool staff will be stationed at the delivery entrance to assist you. Cannot enter the building until 2:50 PM.

Cancellation Policy

If Lakewood High School pool is closed, that information will likely be available on the pool's voicemail at (216) 529-4014 or see our Message Board.

For more information contact Karl Nelson [Karl.Nelson@aultman.com]

ORANGE HIGH SCHOOL POOL

Nov 8, 2014
Dec 6, 2014
Jan 3, 2015

Feb 7, 2015
Feb 21, 2015
Mar 2, 2015

Pool time starts at 4:00pm and ends promptly at 6:00pm. We must shower and be out of the building by 6:15pm. A charge of \$6 per person per session (\$5 for Orange School District residents) covers the use of the pool. **All participants at Orange MUST complete a [registration form](#)** with emergency contact information prior to entering the pool area. So print one and fill it out before you arrive.

Directions to Orange High School Pool

The Orange High School Pool is on the south side of Chagrin Boulevard, between Lander and SOM Center Roads. It is two miles east of the Chagrin exit off I-271 (which is just north of the I-271 and I-480 interchange). From I-271 take the Chagrin boulevard exit and head east. At the Lander Road turning circle stay on Chagrin Boulevard by taking the second road right. The school will be about one-half mile on the right side of the road.

The pool is in the west end of the building. You can see it through the two-story-high windows. Park along the west end of the building. There is a very wide concrete pad leading to a double set of glass doors on the pool deck. If you arrive early, drop your boats on the concrete pad and go inside and wait until we are permitted to bring boats into the pool area.

Kayak Roll Sessions

Work on your Eskimo roll in the comfort of our heated pool so you will be ready for the river this spring. Participants must bring their own boats (clean boats only, please) and gear. **Helmets are required** for anyone entering the pool. There are experienced boaters on hand to give pointers to new kayakers. Enter the pool area through West pool deck doors starting at 3:50pm. Participants must fill out a registration form & pay before being allowed to enter the water. Please bring exact change each day.

Cancellation Policy

If winter driving conditions are bad, the session may be canceled. When Orange Community Education and Recreation is closed, information is typically on local television and radio stations. We will also try to post closings on our **Message Board**.

For more information contact Dave Roush [rockyroush@gmail.com]

Meyers Lake YMCA Pool Roll Sessions

Sessions are now scheduled for every Sunday starting 11/9/14 to 2/22/15 for Meyers Lake YMCA Pool in Canton, OH. (11/9, 11/23, 11/30, 12/7, 12/14, 12/21, 12/28, 1/4, 1/11, 1/18, 1/25, 2/1, 2/8, 2/15, 2/22)

Sunday Pool Session start at 8:45am and end promptly at 10:45am. The YMCA has agreed to open the back door at 8:30am to allow us time to bring in our kayaks/gear.

A charge of \$5-\$7 per kayak/person per session should cover the use of the pool.

Directions to Canton Meyers Lake YMCA Pool

The Meyers Lake YMCA is located at 1333 North Park Ave NW in Canton. Easily located 1 mile west of I-77 using the 13th St exit (just south of Hall of Fame). Right on Park Street and you can't miss the YMCA on the building. If you see the lake on your right you have gone too far.

There are a few simple guidelines to follow. All boaters will bring their kayaks/gear through the back door. All kayaks and gear must be clean before getting to the YMCA. No seal launching. It is important that all kayaks are out of the YMCA building immediately after the session ends, take your kayak out the back door to the parking lot then proceed with showers and changing. Please pay Cosmo (or designated person) at the end of each session. Please remember helmets are required.

Format for the Canton Roll Sessions will remain as in the past, first hour roll practice second hour kayak soccer.

Cancellation Policy - check the Keel-Haulers Message Board the morning of a session, a post will be there in the event the YMCA needs to cancel.

| December | For More Trips - Check our Message Board | | Last Chance to Pay Dues | |
|---------------|---|-------|-----------------------------|--------------|
| 12/6 | (3) Slippery Rock (PA) | 13-19 | Cliff Wire | 440-439-6541 |
| 12/10 | Club Holiday Party at Middleburg Hts Community Center | | Karl Nelson | 330-497-2483 |
| 12/7,14,21,28 | KH Roll Session at Meyers Lake YMCA pool - 8:45 - 10:45 AM | | Jeff Cramer | 330-245-6252 |
| 12/06 | KH Roll Session at Orange pool - 4-6:00 PM | | _____ | |
| 12/20 | KH Roll Session at Lakewood pool - 3:00 to 5:00 PM | | _____ | |

2014 Club Officers

President: Karl Nelson 330-497-2483
VP: Dave Roush 440-623-9035
Secretary: Donna Homberg 440-236-8360
Treasurer: Pam Poljak 440-268-9194

Meeting Place: Middleburg Heights Recreation Center, 15700 Bagley Rd, on the second Tuesday of each month
Doors open at 7:00 P.M., meeting starts at 7:30 P.M.

Membership: \$20 per year. New memberships, renewals, change in address or phone, send directly to
Membership Chairman:

John Kobak, 440-871-1758
1649 Allen Dr.
Westlake, OH 44145

Any opinions, views or recommendations expressed in the articles in this Newsletter are those of the article's author. Printing these articles in no way implies approval or advocacy of any of the opinions, views or recommendations by the Keel-Haulers Canoe Club or any of its Officers, editor, or members. Water sports are a potentially dangerous activity. Keel-Haulers Canoe Club recommends and encourages all of its members and others to abide by all laws, regulations and recommended practices when engaging in such activity. Each member is responsible for assessing her/his own abilities and for not engaging in activities which are beyond those limits. Members assume any and all risk when choosing to participate in any activity and the Keel-Haulers Canoe Club is not responsible for any damages resulting from such participation.

KHCC WEB PAGE URL: www.keelhauler.org

Non- Commercial advertising is free to all members. To place an ad, send the information the way you want it to appear. Please write or call when item is sold. It will appear for 2 months unless canceled. Commercial ads may be submitted by club member's owned businesses four times each year with a maximum of four lines of copy per ad.

Please consider writing a trip report or article for the next newsletter! The deadline for the **January issue of the newsletter is **12/22/14**. Please remember that articles should be sent to Kelly Miller (Laubaugh) at peetzaguy@aol.com.**

KeelHauler Kanews
Kelly Miller, Editor
1515 Fox Chase Dr.
Sewickley, PA 15143
peetzaguy@aol.com

December, 2014

