



OHIO SECTION

SPRING 2007

NEWSLETTER

AMERICAN WATER WORKS ASSOCIATION

Draft Document to Enhance Plan Approval

Maggie Rodgers, Chair & Mike Baker, Chief, DDAGW

The Ohio AWWA/EPA Technology Committee is currently developing a document that will be very useful to public water systems (PWSs) in Ohio when completed.

The document, "Checklist for Obtaining Approved Capacity from Ohio EPA for Surface and Ground Water Sources and Treatment Plants" (Checklist) is one of several steps taken by Ohio EPA to enhance plan approval.

The committee hopes to finalize the checklist at its May 2007 meeting.

This article provides some of the key elements associated with the draft Checklist. This information is being shared for the benefit of those PWSs who are currently either:

- seeking plan approval from Ohio EPA's Central Office for their system's water treatment plant (WTP), or
- planning to upgrade and/or expand their system's WTP.

Ohio EPA's Overall Effort

Development of the Checklist is one of several steps taken by Ohio EPA to enhance plan approval so PWSs are able to process their applications for WTP upgrades/expansions in a timely and responsible manner. A few of the key steps are:

1. A Plan Review Workgroup developed procedures to make the process for getting plan approval more transparent and timely;
2. The Checklist, the emphasis of this article; and
3. Development of Ohio specific standards for the review and approval of PWS engineering plans

Collectively, these three steps are making the plan approval process more predictable for PWSs throughout Ohio. This is both shortening the

time required for PWSs to obtain plan approval without compromising public health and safety; and at the same time saving valuable time, money and effort for both Ohio EPA and PWSs.

First, the **Plan Review Workgroup** developed numerous procedures and checks/balances that shortened the plan approval process in Ohio from approximately a year to roughly three months. Key procedures put in place by the Workgroup include:

- Comments are provided by Ohio EPA's Central office in two distinct categories in the plan review letters sent to PWSs: 1) items **required** by the PWS to obtain plan approval – i.e., the comment is based on a legal requirement; and 2) items **recommended** for plan approval – i.e., the Agency strongly believes the comment is something the PWS should consider and is based on good practice and sound judgment.
- Subsequent plan review letters exchanged between a PWS and Ohio EPA are to be signed by someone from the Agency at an increasing responsibility level – i.e., signifying that Ohio EPA contends that the repeated required comment is based on a legal requirement, and avoiding a potential stalemate between specific individuals from the PWS and the Agency; and
- After three plan review letters, Ohio EPA will either approve or deny the plans. A PWS can request that Ohio EPA deny the plans prior to this point if they believe they are at an impasse. The PWS can then appeal the denial and seek a ruling on the legal basis of the denial. This alternative is not a timely path, and one that both Ohio EPA and PWS should try to void.

Section Conference
Cincinnati
September 18-21

Enhance Plan Approval



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Straight From The Chair

The snow is thawing, the flowers are beginning to sprout, and it's time for an update on the activities of the Ohio Section to you, its members. It has been a busy winter, and there is some positive news to report. In January the Ohio EPA, Division of Surface Water, released a draft NPDES Permit



**Melinda Raimann,
Chair**

for Hydrostatic Test Water and Water Supply System Water that was of significant concern to drinking water utilities. Through a collaborative effort between the Division of Surface Water, the OAWWA Utility Council, and a number of water utilities, the provisions covering drinking water utilities (for example, hydrant flushing) were withdrawn from the draft permit. This withdrawal was announced at the public hearing on February 27 on this matter. The Ohio Section submitted comments on this draft permit

in order to document the concerns of drinking water utilities and to thank the agency for working collaboratively with us.

The Governing Board and several committee chairs and District officers met with Nancy Sullivan from AWWA in Denver on March 1 to review our progress on the Section's Strategic Plan, and prepare an update to that plan. The plan was last updated in 2004, and it is a goal of the Section to update it on a three year cycle. We found many accomplishments to celebrate, and developed a few new objectives to strive for in the next three years. The new draft plan is now in the hands of the Board and will be sent to the Committee and Council chairs to help fill in the objectives for the next three years. While working on this, the goal is to set measurable, attainable, objectives that result in a little "stretch" for us. This type of objective helps us to grow and encourage new ideas and programs, all of which benefit the Section and its members.

In addition to the work on the strategic plan, the Governing Board has been hard at work on the Operating Manual. Cliff Shrive (Vice Chair) is leading this effort to develop the "how-to" resource guide that will assist all Ohio Section volunteers. Procedures and information that was scattered around the Section and tucked in file drawers is being collected, reviewed for accuracy and relevancy, and updated. We are confident that the complete first draft will be ready for your review at the Annual Conference in Cincinnati this September.

The Section is once again participating in the annual AWWA Washington Fly-In this April. At this event a concentrated effort is made by AWWA to meet with our legislators and express our interest and concerns regarding drinking water matters – whether on pending regulations, funding, infrastructure replacement or specific local topics. The Ohio Section representatives attending this event are Ramesh Kasinkunti and Ron Schwarzwaldner. Thank you, gentlemen, for your efforts on the Section's behalf.

There are a number of events coming up on the Ohio Section calendar this Spring. The Spring Expos are scheduled in the Southwest District for April 17th, and in the Northeast District on April 19th. Take this opportunity to see the latest products and services that our manufacturers, distributors and service providers have to offer. There is always something new to see, and lots of old friends to catch-up with at the Expos. If you need contact hours, or just want to hear some good technical presentations, there are the spring district meetings to attend. The Northwest is meeting on April 26, with the joint Southeast & Southwest meeting scheduled for May 7, and the Northeast meeting scheduled for May 10. And if you are preparing to take an EPA license exam, there are the spring study session scheduled for May 5th & 12th. As you can see, it'll be a busy spring for the Ohio Section. I encourage you to attend Section events and to take advantage of volunteer opportunities as they arise.



Director's Report

Greetings to the Ohio Section. A lot of activity is ongoing both in Ohio and in the Association.

New officers were elected at the winter Board meeting on January 21, 2007. Mike Leonard from Georgia was elected the new President Elect and will take office in June 2009. Four of the Vice Presidents retain their positions due to



**Marvin Gnagy,
Director**

the Board actions in 2006 to allow Vice Presidents to serve the remainder of their term as Director. Two new Vice Presidents were elected at the January Board meeting. Don Degen from British Columbia and Jerry Stevens from Iowa take office as Vice Presidents in June at ACE. Thanks to the Ohio Section for nominating me for Vice President. Our new officers are well respected and I give them my full support. In other news, Dave Rager from Cincinnati will take over as the Chair of AwwaRF in June 2007. Jim Fench

from Columbus (collector Wells International) was named Ohio's newest Honorary Member. Jim will receive his award at the opening session in Toronto. Ohio is well represented at the Association level.

In 2006, AWWA eclipsed the 61,000 member mark. Also accomplished in 2006, 27 new or revised AWWA standards were approved by the Board and 90 new titles (books and other references) were published. Three new AWWA staff were hired to perform duties as web editor, assistant advertising, and wastewater standards. AWWA's net income for 2006 was \$1.9 million. Our goal is to attain a 50 percent reserve within the next five (5) years. Current reserves are about 42 percent of the annual budget. Other goals include 8,000 utility members, 11,000 service provider members, and increasing member retention within the next five (5) years. Staff is focusing on member retention since new members who remain AWWA members retain their membership for the rest of their career.

In January, we approved the 2007 budget at a record \$31.5 million. New directives were unveiled at the January meeting as well. These new directives include a review of the dues formula and grades, workforce planning for AWWA member volunteers and staff, internships at headquarters in Denver, and partnering with sections to deliver products and services. Seventeen (17) additional new or revised standards also were approved in January.

Ohio Section AWWA responded to an Ohio EPA draft rule related to hydrant flushing from the Division of Surface Water (not the division of Drinking and Ground Waters). Based on our comments and others, EPA agreed to remove the hydrant flushing requirements from the draft rule with the provisions that AWWA work with EPA on this issue in the future. Ohio EPA operator certification rules are beginning to be implemented. A number of changes are taking place that may affect your certification. Please contact AWWA or Ohio EPA Certification Unit if you have questions related to operator certification. April 17-18, 2007 is the Washington, D.C. fly-in. We are participating again this year to meet with Congressional leaders about regulatory issues. Watch for further updates and see the Chair's message about other Ohio Section news.

The next Annual conference and Exposition (ACE) is in Toronto, Canada June 24-28, 2007. Bring your passport if you plan to attend ACE in Toronto. Homeland security rules require a passport if you are traveling from the U.S. to Canada.

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As noted previously, the second step of Ohio EPA's approach to improving plan approval is this draft approved capacity Checklist that establishes the basis for the future development of Ohio specific standards for the review and approval of PWS engineering plans. This Checklist includes approved capacity criteria for:

1. Surface water sources,
2. Ground water sources,
3. Combined surface water and ground water sources,
4. Conventional, surface WTPs,
5. Ground water treatment,
6. Ground water, precipitative softening WTPs,
7. Chemical storage-and-feed facilities,
8. Source- and finished-water pumping, and
9. Finished-water storage.

Key elements of this Checklist that are new include:

- Strong recommendation that Ohio's PWSs should develop five-to-ten year, water demand projections for their systems at least every five years;
- Specific definition for the approved capacity of source-water components, WTP unit-treatment processes and components and finished-water storage;
- Stipulation that the full approved capacity is based on all units in-service (except for source- and finished-water pumping and filters at surface WTPs, in which case the approved capacity is based on the largest unit out-of-service);
- Clarification as to the maximum sustained finished-water production for WTPs that are operated less than 24 hours during the day;
- Recognition of "essential" chemicals; and
- Revised, finished-water pumping criteria for large PWSs that have multiple WTPs and/or system pressure zones.

Each of these six key elements is discussed briefly on the next few pages.

A PWS should initiate design to expand or upgrade an existing WTP - or other appropriate planning activities to address WTP capacity shortfalls - when the calculated Maximum Day Water Demand, projected five years into the future, exceeds the current Approved Capacity of the WTP. It is also recommended that Water Demand Projections be updated by a PWS at the time design is initiated for:

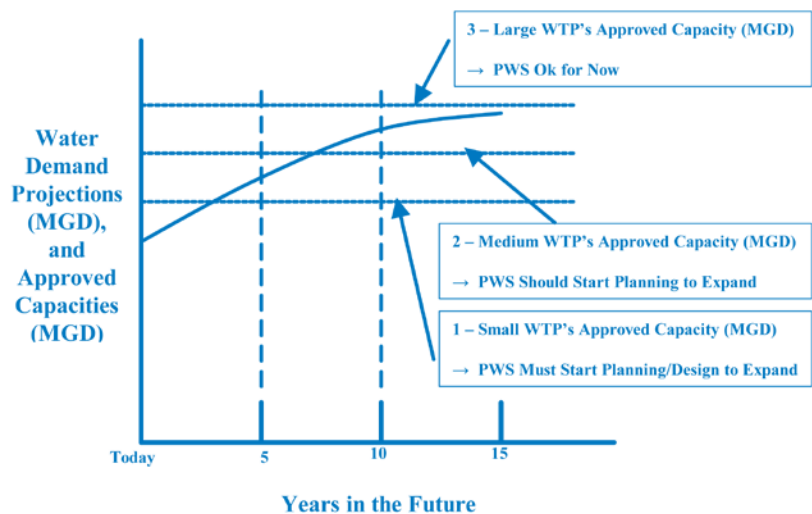
- a new WTP, or

- expanding and/or upgrading an existing water treatment plant.

The solid line shown on Figure 1 illustrates maximum-day water demand projections for a PWS that is growing over the next fifteen years. The three dotted lines provide examples concerning the ability of a WTP to adequately meet these demands assuming the WTP has a small, medium or large approved capacity:

1. The projected maximum-day demands would exceed the approved capacity of a Small WTP within the next five years,
2. The projected maximum-day demands would exceed the approved capacity of a Medium WTP within years five through ten,
3. The projected maximum-day demand would not exceed the approved capacity of a Large WTP within the next fifteen years.

Figure 1



The draft Checklist provides the criteria that Ohio EPA uses to determine the Approved Capacity of surface water and groundwater sources and each system component of a WTP. A system "component" for a WTP is:

- A unit-treatment process (e.g., rapid-mix, flocculation, sedimentation, filtration, clear well, etc.);
- An essential chemical storage-and-feed facility;
- A non-essential chemical-feed facility;
- A disinfection facility (e.g., chorine, chlora mines, chlorine dioxide, ozone or UV contact tank); or
- A pumping unit (e.g., well pump, low-service pump, high-service pump, etc.).

A "WTP" is a compilation of system components.

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The component with the smallest approved capacity determines the approved capacity of the WTP. The approved capacity of a WTP must meet or exceed the maximum day demand at the design year.

- **Design Year** – A year in the future for which a WTP is designed to be able to meet the Maximum Day Demand.
- **Water Demand Projections** - These projections predict, at a minimum, a water system's average day and maximum day water demands for at least five and ten years into the future.

The stipulation that the full-approved capacity is based on all units in-service for most system components is to reinforce the concept that an individual unit should not exceed its approved capacity over a 24-hour period.

FOR EXAMPLE, the approved capacity of a WTP is 6 MGD based on three equally sized clarification units in-service, each of which has an approved capacity of 2 MGD. This plant should not be operated over an entire day at a rate:

- > 6 MGD with all three clarifiers in-service,
- > 4 MGD with only two clarifiers in-service, or
- > 2 MGD with only one clarifier in-service.

WTPs that are not operated for 24 hours each day on a regular basis cannot exceed the plant's approved capacity for the time period that the WTP is operated during the day.

FOR EXAMPLE, the projected Maximum Day Demand in the design year to be supplied by a WTP is 1 MGD. This particular plant is designed to be regularly operated one, 8-hour shift each day. Therefore, the Approved Capacity of this WTP must be at least 3 MGD:

$$\frac{1 \text{ MG}}{8 \text{ Hours}} \times \frac{24 \text{ Hours}}{\text{Day}} = 3 \text{ MGD}$$

Another way of looking at this Example is, the Approved Capacity is 3 MGD for a WTP. This particular plant is regularly operated one, 8-hour shift each day.

Therefore, during the 8-hour shift the WTP cannot process more than 1 MG of water:

$$\frac{3 \text{ MG}}{\text{Day}} \times \frac{\text{Day}}{24 \text{ Hours}} \times 8 \text{ Hours} = 1 \text{ MG}$$

The new definition for Essential Chemicals determines when 30 days of storage are required.

Essential chemicals are:

- Coagulant for surface water treatment,
- Polymer(s) if necessary to meet enhanced surface water treatment turbidity standards,
- Disinfectant,
- Corrosion control chemicals where required to meet water quality parameters for lead and copper corrosion control,
- Oxidant where required for removal of primary contaminant, and
- Any chemical required during a demonstration study to obtain Ohio EPA approval of an alternative technology.

Essential chemicals require duplicate feeders and ≥ 30 days of storage (at average dose and average daily flow in the design year). Non-essential chemicals have lesser requirements, and storage that is to be determined as justified by an engineering submission.

For large PWSs that have multiple WTPs and/or distribution-system pressure zones the approved capacity of a "single pump station serving multiple pressure zones" shall generally be determined separately for each pressure zone with the largest pump serving that pressure zone out-of-service. The approved combined capacity of "multiple pump stations serving the same pressure zone" shall be based on the combined capacity of the various pump stations with the single largest pump out of service, as confirmed by an engineering submission supported by hydraulic modeling demonstrating that the pump stations are mutually supporting.

The third and final step in Ohio EPA's proactive efforts to enhance the plan approval process is the final Checklist is to serve as the basis for development of Ohio specific review criteria.

The Ohio specific standards would replace the use of Ten State Standards for the review and approval of PWS engineering plans. This will make the approval criteria more transparent including the approved capacity criteria that are currently embedded in various design documents.

Technology Committee's Mission

The Approved Capacity Checklist is one of many documents the Ohio AWWA/EPA Technology Committee has produced over the past decade. Three major challenges are making it more and more necessary for PWSs in Ohio to either upgrade and/or expand their existing WTPs:

1. Emerging Regulations - that are requiring PWSs to either: (a) optimize their existing WTPs, or (b) add unit processes to these WTPs to produce water of higher quality; and
2. Aging Infrastructure – that are requiring PWSs to either: (a) upgrade their existing WTPs, or (b) replace these existing facilities with new ones; and
3. Increasing Water Demands – that are requiring PWSs to either: (a) high rate certain existing unit processes in their WTPs, or (b) add unit processes to these WTPs to adequately produce larger quantities of water.

The principal goal of the Technology Committee is to produce useful documents that provide timely information to Ohio's PWSs; allowing the systems to meet these three challenges in a responsible and cost-effective manner. The two main types of products generated by the Technology Committee are Guidelines and Checklists.

Guidelines are documents which outline criteria and procedures for obtaining Ohio EPA approval of unit processes with alternate design criteria.

Checklists are white papers that summarize issues and concerns about a particular subject.

To make the Guidelines easier to understand, the Technology Committee has attempted to publish each Guideline with the following Sections:

- Purpose,
- Background and Objectives,
- Other Applicable Guidance, and
- Procedures.

The Procedures Section, the most important one, is divided into:

- a. General criteria,
- b. Demonstration study criteria, and
- c. Approval criteria.

The General criteria sub-section establishes standard design criteria. The Demonstration study criteria outline the procedures to be followed in

conducting a Demonstration study to obtain Ohio EPA approval for a unit process with alternate design criteria. The Approval criteria are the parameters with which results of the Demonstration study are compared to obtain Ohio EPA approval of the unit process with alternate design criteria.

Over the past decade, the Technology Committee has produced a number of useful Guidelines and Checklists. Interested parties are encouraged to learn more about these documents and how information in these documents can be used to benefit PWSs in Ohio. Detailed information about these documents can be found on the Internet at <http://www.epa.state.oh.us/ddagw>.

Items currently under preparation by the Technology Committee include:

- "Checklist for Filter Operations and Maintenance at Surface Water Treatment Plants,"
- "Checklist for Obtaining Approved Capacity from Ohio EPA for Surface and Groundwater Treatment Plants,"
- "Guidelines for Obtaining Approval of granular activated carbon (GAC) for disinfection byproduct (DBP) precursor removal,"
- White paper on "Distribution System Optimization for Water Quality," and
- "Checklist for Hypochlorite Conversion."

The Ohio AWWA/EPA Technology Committee is continually looking for ideas from you, members of the Ohio AWWA Section, related to the types of documents that should be developed to provide useful information to Ohio's PWSs in a timely manner. Please contact us to let us know your thoughts – together we can make Ohio's water-supply community a better place.





Berkeley Springs International Water Tasting

BERKELEY SPRINGS, WV ----- Getting a day's jump on the Hollywood crowd, tiny Berkeley Springs, West Virginia honored more than 30 world waters in what organizers of the Berkeley Springs International Water Tasting are calling the Academy Awards of Water. Winner of the Best Municipal Water category was Montpelier, Ohio which won the same category in 2006 and 2003. Three British Columbia towns -- Clearbrook, Elkford and Campbell River -- placed second, third and fourth respectively. The Metropolitan Water District of Southern California, a former gold medal winner, came in fifth making them the second best water in the United States. There were 32 waters from 13 states and three Canadian provinces entered.

"Good water rises to the top," said Klein Rone. "Our tasting process is vindicated when the same waters are rated by a completely different panel of judges and still win." Atlantic City was the only other three time gold medalist.

More than 200 people watched at the Country Inn in Berkeley Springs on February 24 as a dozen media judges spent hours tasting more than 100 waters from 23 states and ten foreign countries from New Zealand and Armenia to Grenada and the Philippines. Arthur von Wiesenberger, author and founder of BottledWaterWeb.com once again served as the event's watermaster. "This is the longest running and largest water tasting in the world," he said.

Event producer Jill Klein Rone explained that the last time the tasting saw back to back gold medalists was in 1993 and 4 when Atlantic City placed first.

The challenge to distinguish and rate subtle differences in the bottled water led to another first this year -- two ties in the bottled water category where an American and a Canadian water tied for both gold and silver. I Am Healthy from Mount Palomar, CA tied for gold with Muskoka Natural Spring water from Gravenhurst, Ontario. Tied for silver were John Deere Artisan Water of Grayling, MI and Ramona Springs, Washago, Ontario. Third place was ESKA from St-Mathieu d'Harricana, Quebec; fourth was Aquaroyale from Baguio, Philippines and fifth was Woolrich Spring Water from Woolrich, PA. All seven of the top five bottled waters were new to the winners circle this year.

Unlike 2006, international waters did not sweep the sparkling water category although four different Bosnian waters did rate second through fifth place. Sparkling StoneClear Springs from Vanleer, Tennessee won the gold medal for sparkling waters. Their

previous placement was a bronze in 2004.

Montpelier's water claims gold

BY MARCI HUMMEL
SPECIAL TO THE LEADER
AND
J.L. SCHMUCKER
LE MANAGING EDITOR

For the third time, the village's water has been declared "the best in the world" by judges at the Berkeley Springs, W.Va., Winter Festival of the Waters. "I would like to commend the water plant, and the whole village. My hat's off to the whole town," said Montpelier Mayor Steve Yagelski.

Judging was Saturday, and Montpelier's water won first place in the municipal water category. Montpelier also placed first in 2003 and 2006, and previously placed second in 1999 and fifth in 2002.

The back-to-back wins puts Montpelier in an elite group. According to event producer Jill Klein Rone, the last time the tasting saw back-to-back gold medalists was in 1993 and 1994, when Atlantic City placed first. Atlantic City was also the only other three-time gold medalist.

"Good water rises to the top," stated Klein Rone. Montpelier did not enter the contest in 2004, and in 2005 a sample was damaged from the other municipal waters that are drawn from the Michindoh aquifer.

"We do a two-step process that removes iron and 60 percent of the hardness through a lime-softening process," he explained. "This gives the water a lighter texture and mouth feel. It ends up with no aftertaste. We just take what God gives us and tweak it a bit."

A dozen media judges selected by Klein Rone from publications including *The Washington Post*, the *Baltimore Sun*, NBC-TV, *Harper's Magazine* and *Travel & Leisure* were instructed to look, sniff and taste each water under guidelines like those in a wine-tasting. The waters were rated for each attribute including appearance (it should be clear - or slightly opaque for glacial waters), aroma (there should be none), taste (it should taste clean), mouth feel (it should feel light), and aftertaste (it should leave you thirsty for more). Waters were tasted in four separate flights over two days.

Montpelier and other winners were presented with handcrafted fused-glass slump bowls.

Pictured enjoying some of the village's award winning outside of the Water Treatment Plant are Josh Fritsch and Bill Blakely of the Montpelier Water Department. Montpelier's water claimed the top spot for second consecutive year, and the third year overall.

Council reviews '06 finances

BY J.L. SCHMUCKER
LE MANAGING EDITOR

"I've taken the (2006) financial report, torn it apart and looked at it, to see why we have increases and decreases, where

cant increase in interest income this year, and we also did not expend any money out of one of our capital funds, our sewer capital because we are planning our CSO (Combined Sewer

to the regional transportation of electricity.

Mrs. Hepner also noted that the village had seen a 34 percent reduction in health insurance expenditures after the

Josh Fritsch and Bill Blakely make a "toast" with their award winning water. Montpelier's water won first place for second consecutive year, and the third year overall.

Berkeley Springs

Purified water which is processed and bottled municipal tap water became a category in 2001. "We added them because this is a growing field," said von Wiesenberger. The 2007 winner was Coral Water from Rost Labs, FL. Crystal Mountain Natural Spring Water from Huntsville, AL placed second; third was Daytona Beach, FL. Chill from Mechanicsville, VA placed fourth even though it boasted a silver medal on its label earned in 2005. Fifth was Stone Clear Premium from Vanleer, TN. The crowd was most interested in the peoples' choice packaging competition where it was their votes that chose which product was the most alluring. "We knew our choice of being the Academy Awards of Water was a good one when we saw the entry from Aquadeco," said Klein Rone. "Their glass bottle has a look remarkably similar to Oscar," she said. The crowd agreed. Voting all day, Aquadeco filled with water from Mount Ararat, Armenia wowed the crowd winning first place in packaging. Second place was the sleek glass column from Dabau Luxury Water of New York City; third was StoneClear Springs Natural Spring Water from Vanleer, TN; Waiwera Infinity Artesian Water which won in 2006 placed fourth. The curvy light green glass bottle came from Waiwera, New Zealand. Closing out the field was the deep blue Aquarius Oxygen Water from Eugene, OR.

"It will be interesting to see how many of this year's winners follow the pattern and use an image of the medal they won in Berkeley Springs on their bottles," said Jeanne Mozier, one of the event's founders. Mozier collected a dozen entrants from the event that already sported the Berkeley Springs seal. "This is exactly the type of global recognition for Berkeley Springs that we hoped for when the event was initiated in 1991," she said. Bottles with the event medal on them are kept on display in the Visitors Center office. A dozen media judges selected by Klein Rone from publications including The Washington Post, Travel Leisure, Conde Naste and the Baltimore Sun were instructed by von Wiesenberger to look, sniff and taste each water under guidelines like those in a wine tasting. The waters were rated for each attribute including appearance (it should be clear - or slightly opaque for glacial waters), aroma (there should be none), taste (it should taste

clean), mouth feel (it should feel light), aftertaste (it should leave you thirsty for more). Waters were tasted in four separate flights over two days.

The water tasting is the centerpiece of the Winter Festival of Waters, a three-month series of special activities produced by Travel Berkeley Springs to heighten winter tourism business in Morgan County.

The 18th annual Berkeley Springs International Water Tasting is scheduled for Saturday, February 23, 2008.

Best Municipal Water 2007

1st – Montpelier, Ohio

- 2nd – Clearbrook, British Columbia
- 3rd – Elkford, British Columbia
- 4th – Campbell River, British Columbia
- 5th – Metropolitan Water District of Southern California

Best Bottled Water

- 1st – TIE
 - I Am Healthy, Mount Palomar, CA
 - Muskoka Natural Spring Water, Gravenhurst, Ontario.
- 2nd – TIE
 - John Deere Artisan Water of Grayling, MI
 - Ramona Springs, Washago, Ontario.
- 3rd – ESKA from St-Mathieu d'Harricana, Quebec
- 4th – Aquaroyale, Baguio, Philippines
- 5th – Woolrich Spring Water, Woolrich, PA.

Best Sparkling

- 1st – Sparkling StoneClear Springs, Vanleer, Tennessee
- 2nd – Esparanza, Tesanj, Bosnia
- 3rd – Tesanjski Dijamant, Tesanj, Bosnia
- 4th – Hana Sparkling, Tesanj, Bosnia
- 5th – Tesanjski Kiseljak, Tesanj, Bosnia

Best Packaging

- 1st – Aquadeco, Mount Ararat, Armenia
- 2nd – Dabau Luxury Water, New York, NY
- 3rd – StoneClear Springs Natural Spring Water, Vanleer, TN
- 4th – Waiwera Infinity Artesian Water, Waiwera, New Zealand.
- 5th – Aquarius Oxygen Water from Eugene, OR.

Purified Drinking Water

- 1st – Coral Water, Rost Labs, FL
- 2nd – Crystal Mountain Natural Spring Water, Huntsville, AL
- 3rd – Daytona Beach, FL
- 4th – Chill, Mechanicsville, Virginia
- 5th – Stone Clear Premium, Vanleer, TN





Ohio Section 2007 Conference Cincinnati, September 18-21

- OVERVIEW

Conference Sites

Hilton Netherland Plaza and the Duke Energy Convention Center

Preliminary Schedule of Events

- Tuesday - 18th** Golf Outing (Kenton County GC)
Early Bird Technical Sessions* [tentative]
HofbräuHaus Social Outing
- Wednesday - 19th** Kickoff Breakfast
Exhibits and Educational Tours*
Technical Sessions/Workshops* [tentative]
MAC Lunch
Tapping and Top Ops contests
MAC Mixer
Young Professionals, Diversity, and Membership Mixer
- Thursday - 20th** Concurrent Technical Sessions* [am]
Business Luncheon
Concurrent Technical Sessions* [pm]
Meet & Greet Reception; Banquet
- Friday - 21st** Concurrent Technical Sessions* [am]
Tour of the Greater Cincinnati Water Works' RMTP Facility*

**contact hour approval pending*

- SPOUSE'S PROGRAM

- Tuesday - 18th** Hospitality Room- Welcome, Sign-Ups and Refreshments.
- Wednesday - 19th** Taft Museum of Art - Visit "The Secret Gem of the City".
An Exquisite Art and Home Tour with Lunch.
- Thursday - 20th** Relaxing Riverboat Cruise with Lunch and Entertainment
on the Historic Ohio River.
- Friday - 21st** "A Morning of Feeling Fine" given by the Aveda Institute and Tri- Health.
A Pampering Experience and Health Tips for all.

Plus--- Gifts for all, and time to shop Macy's, Saks, Tiffany's and other downtown stores during the week.