



# 2020

# 6102

January							February						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	4						1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	29

May

S	M	T	W	T	F	S	S	M	T	W	T	F	S			
					1	2					1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13			
10	11	12	13	14	15	16	14	15	16	17	18	19	20			
17	18	19	20	21	22	23	21	22	23	24	25	26	27			
24	25	26	27	28	29	30	28	29	30							
31																

September

S	M	T	W	T	F	S	S	M	T	W	Th	F	S		
					1	2	3	4	5				1	2	3
6	7	8	9	10	11	12	4	5	6	7	8	9	10		
13	14	15	16	17	18	19	11	12	13	14	15	16	17		
20	21	22	23	24	25	26	18	19	20	21	22	23	24		
27	28	29	30				25	26	27	28	29	30	31		

October

S	M	T	W	T	F	S	S	M	T	W	T	F	S	
				1	2	3	4							
5	6	7	8	9	10	11	2	3	4	5	6	7	8	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	
26	27	28	29	30	31		23	24	25	26	27	28	29	
							30	31						

April

S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1	2	3	4						
5	6	7	8	9	10	11	5	6	7	8	9	10	11		
12	13	14	15	16	17	18	12	13	14	15	16	17	18		
19	20	21	22	23	24	25	19	20	21	22	23	24	25		
26	27	28	29	30			26	27	28	29	30				

July

S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1	2	3	4						
5	6	7	8	9	10	11	2	3	4	5	6	7	8		
12	13	14	15	16	17	18	9	10	11	12	13	14	15		
19	20	21	22	23	24	25	16	17	18	19	20	21	22		
26	27	28	29	30	31		23	24	25	26	27	28	29		
							30	31							

March

S	M	T	W	T	F	S	S	M	T	W	T	F	S					
						1	2	3	4	5	6	7						
8	9	10	11	12	13	14	5	6	7	8	9	10	11					
15	16	17	18	19	20	21	12	13	14	15	16	17	18					
22	23	24	25	26	27	28	19	20	21	22	23	24	25					
29	30	31					26	27	28	29	30							

November

S	M	T	W	T	F	S	S	M	T	W	T	F	S					
						1	2	3	4	5	6	7						
8	9	10	11	12	13	14	6	7	8	9	10	11	12					
15	16	17	18	19	20	21	13	14	15	16	17	18	19					
22	23	24	25	26	27	28	20	21	22	23	24	25	26					
29	30						27	28	29	30	31							

December

S	M	T	W	T	F	S	S	M	T	W	T	F	S					
						1	2	3	4	5	6	7						
8	9	10	11	12	13	14	6	7	8	9	10	11	12					
15	16	17	18	19	20	21	13	14	15	16	17	18	19					
22	23	24	25	26	27	28	20	21	22	23	24	25	26					
29	30						27	28	29	30	31							

- Jan 1 **New Year's Day**
- Jan 20 **Martin Luther King Jr. Day**
- Feb 14 **Valentine's Day**
- Feb 17 **Presidents' Day**
- Apr 12 **Easter Sunday**
- May 10 **Mother's Day**
- May 25 **Memorial Day**
- Jun 21 **Father's Day**
- June **OWEA Conference**
- Jul 4 **Independence Day**
- Sep 7 **Labor Day**
- Oct 12 **Columbus Day**
- Oct 31 **Halloween**
- Nov 11 **Veterans Day**
- Nov 26 **Thanksgiving Day**
- Dec 24 **Christmas Eve**
- Dec 25 **Christmas Day**
- Dec 31 **New Year's Eve**





**OWEA HAS A VERY ACTIVE TWITTER ACCOUNT WITH MORE THAN 1,200 FOLLOWERS.**

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**6** **7** **8** **9** **10** **11** **12**

**1** **2** **3** **4** **5**

New Year's Day  
February Buckeye Bulletin Deadline

**Photo by Pat O'Connor, Hazen.** This photo comes from the City of Miamisburg Water Reclamation Facility. The plant is a 4 MGD design, secondary treatment facility. The facility is finishing up a near \$16 million upgrade, designed by Hazen and Sawyer. The photo comes from inside an anaerobic digester.

<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		

**SE Friends & Family Event**  
**NE Operations Seminar**  
**SW Industrial Waste Seminar**  
Martin Luther King Jr. Day

Both digesters were rehabbed during the project which included complete cleaning, new covers, and mixers. The equipment installed was OTI covers and mixers. In the picture you can see the mixer draft tube, ballasts hung from the skirt of the cover, and the sludge withdraw line.

December

S	M	T	W	T	F	S
						<b>1</b>
<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>
<b>30</b>	<b>31</b>					

February

S	M	T	W	T	F	S
						<b>1</b>
<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>		

# January 2019

CALENDAR SPONSOR



**OWEA OFFERS 14 MAJOR AWARDS EACH YEAR & NUMEROUS SPECIALITY AWARDS. CONSIDER NOMINATING A COWORKER.**



Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**Photo by GPD Group** GPD worked with the City of Ashtabula and the Ohio EPA to design major wastewater utility rehabilitation projects at the Water Pollution Control Facility. GPD prepared a preliminary capital improvement plan and initial improvements include rehabilitation of two final settling tanks, electrical improvements, installation of a new UV disinfection system, abandonment of the chlorine disinfection system, evaluation of the facility's physical components, primary settling tank rehabilitation and renovation of the three sludge digesters and related equipment.

<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>1</b>	<b>2</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>9</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	Groundhog Day
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>1</b>
	President's Day			Valentine's Day			
				<b>NE Industrial Waste Seminar</b>			
				<b>SE Sofadli Plant Tour</b>			

January

S	M	T	W	T	F	S
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		

March

S	M	T	W	T	F	S
					<b>1</b>	<b>2</b>
<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
						<b>31</b>

# February 2019

CALENDAR SPONSOR



**OWEA OFFERS GRANT MONEY FOR PUBLIC OUTREACH EVENTS TO SCHOOLS, BOY SCOUT GROUPS, & OTHER VARIOUS PUBLIC OUTREACH AREAS.**



Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

**Photo by Ron Maichle** The oldest of Northeast Ohio Regional Sewer District's facilities, the Easterly Wastewater Treatment Plant is located in Cleveland in the same location where it has stood since 1908. The plant treats wastewater from more than 300,000 residents' homes and businesses, as well as stormwater from combined sewers which have existed under Cleveland in some areas for more than 100 years. Easterly recently completed major construction to expand its secondary treatment capacity to 400 million gallons per day, a requirement of NEORSD's Project Clean Lake consent decree with the U.S. EPA.

<b>1</b>	<b>2</b>					
<b>8</b>	<b>9</b>					
<b>15</b>	<b>16</b>					
<b>22</b>	<b>23</b>					
<b>29</b>	<b>30</b>					

<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>31</b>						

February

S	M	T	W	T	F	S
					<b>1</b>	<b>2</b>
<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>		

April

S	M	T	W	T	F	S
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>				

# March 2019

CALENDAR SPONSOR



INTERESTED IN VOLUNTEERING ON AN OWEA COMMITTEE? CONTACT THE OWEA OFFICE.



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>				
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

**May Buckeye Bulletin Submission Deadline**  
 Tax Day  
 SE Section Meeting  
 Good Friday  
 Administrative Professional's Day  
 Easter

**Photo by Greater Cincinnati Water Works SMU** (Stormwater Management Utility) Barrier Dam (A secret to most, but it's the most important flood protection facility in the city).

March

S	M	T	W	T	F	S
					<b>1</b>	<b>2</b>
<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

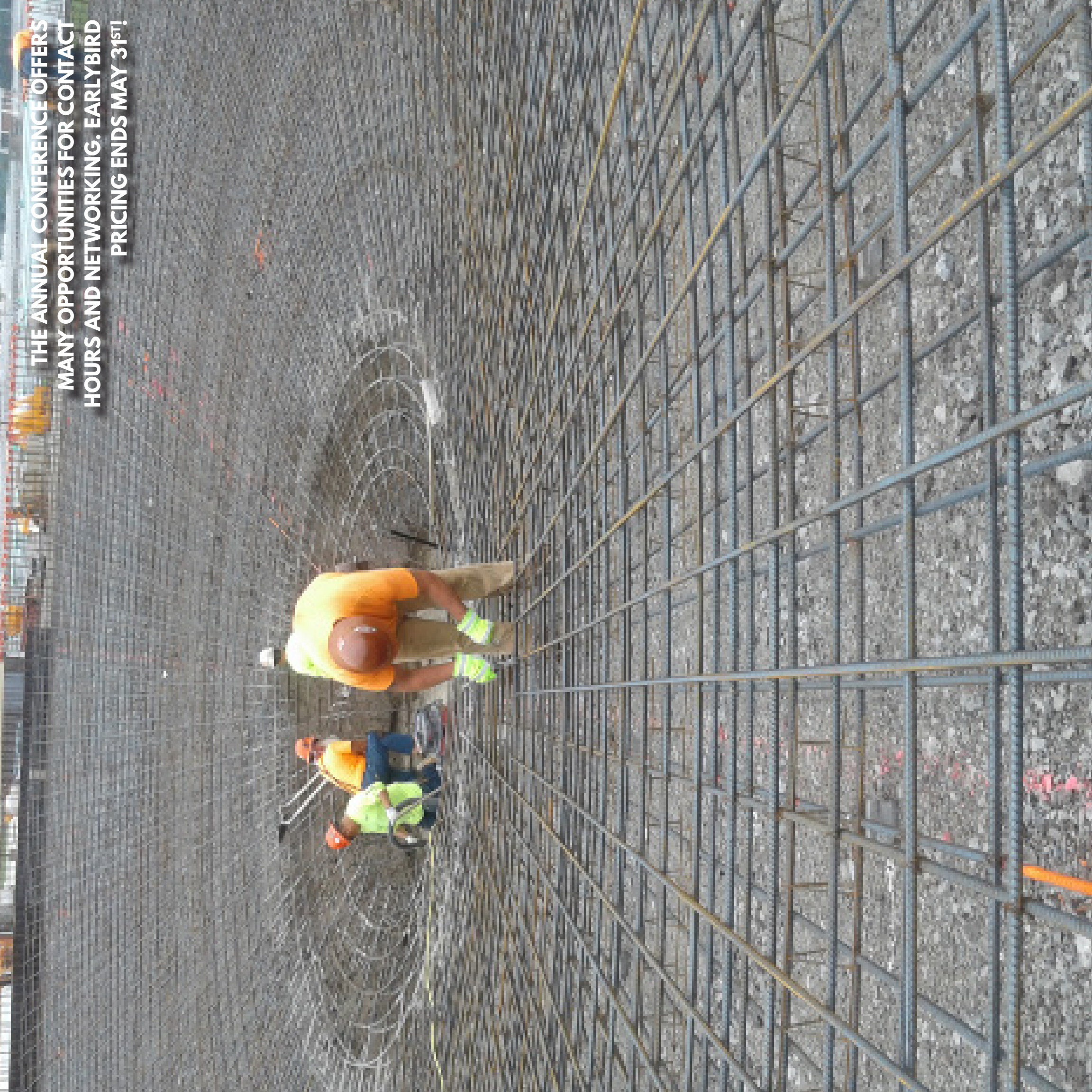
# April 2019

CALENDAR SPONSOR



May

S	M	T	W	T	F	S
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>		



THE ANNUAL CONFERENCE OFFERS  
MANY OPPORTUNITIES FOR CONTACT  
HOURS AND NETWORKING. EARLYBIRD  
PRICING ENDS MAY 31<sup>ST</sup>!

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

**Photo by Mark Zarbaugh, Ribway Engineering Group** The City of Columbus' Southernly Wastewater Treatment Plant (SWWTP) is the largest of the City's two wastewater treatment plants. Three construction contracts are currently being utilized to build a Chemically Enhanced Primary Treatment (CEPT) train that will increase the plant's peak treatment capacity from 330 MGD to 440 MGD. This photo shows the base mat rebar installation for Gravity Thickener No. 4 that is being constructed to provide solids handling for the CEPT train.

5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Cinco de Mayo

Mother's Day

Memorial Day

WEA

NW Section Meeting

Collection Systems Workshop

SE Section Meeting

April

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

June

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
						30

**May**  
2019

CALENDAR SPONSOR

**CDM**  
Smith

THE OWEA CONFERENCE ROTATES  
AROUND THE STATE WITH A DIFFERENT  
SECTION HOSTING EACH YEAR.



Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**Photo by Jeff Kramer, Northwestern Water & Sewer District** This sand filter is part of the Wastewater Package Treatment Plant for “Williamsburg on the River”, which treats 50,000 gallons per day. Williamsburg is a community of residential homes near the Maumee River in western Wood County.

<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>
<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>
<b>30</b>	<b>OWEA Technical Conference &amp; Expo</b>	<b>OWEA Technical Conference &amp; Expo</b>	<b>OWEA Technical Conference &amp; Expo</b>	<b>OWEA Technical Conference &amp; Expo</b>	<b>OWEA Technical Conference &amp; Expo</b>	<b>OWEA Technical Conference &amp; Expo</b>

May

S	M	T	W	T	F	S
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	

July

S	M	T	W	T	F	S
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			

# June 2019

CALENDAR SPONSOR





EACH YEAR OWEA SPONSORS SCHOOL FIELD TRIPS  
SO THAT STUDENTS CAN GET A FIRST HAND LOOK  
AT A LOCAL WASTEWATER TREATMENT PLANT.



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**August Bulletin Submission Deadline**  
 Independence Day

**Drone photo by Clem Kutzli** With the final clarifiers in the foreground, construction continues in the background on the biosolids dewatering project at the Wauseon WRP. Biosolids will be pumped from the south digester to the volute dewatering press room that is being installed in the north bay of the operations building. From there the biosolids will be transferred to a dumpster then hauled to a landfill for disposal.

June

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

August

S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**July**  
2019

CALENDAR SPONSOR



OWEA'S BUCKEYE BULLETIN HAS  
A CIRCULATION OF OVER 2,200  
WASTEWATER PROFESSIONALS &  
GOVERNMENT OFFICIALS.



Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

**Photo by Jeff Kramer, Northwestern Water & Sewer District** This trickling filter at the McComb wastewater treatment plant continues to provide clean water for this rural village. Built in the late 1930's this wastewater plant remains operational. Thanks to a grant from the USDA, a new water reclamation facility is under construction next door to the current facility. The new plant will be operational by early 2020.

<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>

July

S M T W T F S  
**1 2 3 4 5 6**  
**7 8 9 10 11 12 13**  
**14 15 16 17 18 19 20**  
**21 22 23 24 25 26 27**  
**28 29 30 31**

September

S M T W T F S  
**1 2 3 4 5 6 7**  
**8 9 10 11 12 13 14**  
**15 16 17 18 19 20 21**  
**22 23 24 25 26 27 28**  
**29 30**

# August 2019

CALENDAR SPONSOR

**CDM**  
Smith



OWEA OFFERS 50 FREE STUDENT MEMBERSHIPS EVERY YEAR.



Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**Photo by Chad Kidd** This is a picture of the aeration/anoxic zone at Delaware County RSD Lower Scioto Facility.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7	8	9	10	11	12
		November Buckeye Bulletin Deadline		OWEA	OWEA	
13	14	15	16	17	18	19
		2020 Calendar Photo Contest Deadline!	Bess's Day	Plant Operations & Lab Workshop	Plant Operations & Lab Workshop	
20	21	22	23	24	25	26
	Columbus Day					Sweetest Day
27	28	29	30	31		
				Halloween		

September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

November

S	M	T	W	T	F	S
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
						14
						15
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						19
						20
						21
						22
						23
						24
						25
						26
						27
						28
						29
						30

# October 2019

CALENDAR SPONSOR





**OWEA IS ONE OF THE 5  
LARGEST MEMBERSHIP  
ASSOCIATIONS OF WEF.**

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**Photo by Eric Evers** The Mill Creek Wastewater Treatment Plant is the Metropolitan Sewer District of Greater Cincinnati's (MSD) largest facility. Located in the Lower Price Hill neighborhood, it treats an average of 130 million gallons of wastewater a day during dry weather and up to 430 million gallons a day during large rain storms. Wastewater at the Mill Creek plant is treated, disinfected, and discharged as clean water into the Ohio River. Wastewater undergoes preliminary treatment, primary treatment, secondary treatment, and disinfection with sodium hypochlorite. Solids collected at Mill Creek are disposed of on-site through incineration.

<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>
<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

Daylight Savings Time Ends

Veterans Day

Thanksgiving Day

Black Friday

# November 2019

October

December

S	M	T	W	T	F	S	S	M	T	W	T	F	S
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>			<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
							<b>29</b>	<b>30</b>	<b>31</b>				

CALENDAR SPONSOR





AN OWEA MEMBERSHIP IS WORTH ONE CONTACT HOUR.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b> OWEA	<b>6</b>	<b>7</b>
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b> Biosolids Workshop	<b>13</b>	<b>14</b>
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
Winter Solstice <b>29</b>	Hanukkah Begins <b>30</b>	Christmas Eve <b>31</b>	Christmas Day			
	Hanukkah Ends	New Year's Eve				

**Photo by Dan Hancock** A "Worms-Eye" view of one of Northeast Ohio Regional Sewer District's three 100 dry ton per day Fluidized Bed Incinerators and Wet Scrubbers located in the Renewable Energy Facility (REF) at the Southerly Waste Water Treatment Plant in Cuyahoga Hts., Ohio. The Heat from these units is used to generate high pressure super-heated steam used to power a six stage condensing turbine/ generator to generate electricity to reduced the electrical cost in the REF.

# December 2019

November

S M T W T F S

1 2  
3 4 5 6 7 8 9  
10 11 12 13 14 15 16  
17 18 19 20 21 22 23  
24 25 26 27 28 29 30

January

S M T W T F S  
1 2 3 4  
5 6 7 8 9 10 11  
12 13 14 15 16 17 18  
19 20 21 22 23 24 25  
26 27 28 29 30 31

CALENDAR SPONSOR

