

Crystal Lake Camera Club Newsletter

Serving Crystal Lake, IL and Surrounding Communities Since 1980

December, 2018

Issue 2018-12



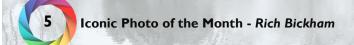
WHAT'S IN THIS ISSUE























First Snowfall © 2018, Rich Bickham

2018 CLCC Officers

Co-President	Al Popp
Co-President	Chuck Rasmussen
Vice President	Peter Pelke II
Treasurer	Grace Moline
Secretary	OPEN
Previous President	

CLCC Emailcrystallake_cameraclub@yahoo.com

CLCC Support Staff

Newsletter Editor Rich Bickham <u>biggieman760@gmail.com</u>
Assistant Judy Jorgensen
Webmaster Sandy Wittman <u>wittman@oakton.edu</u>
CACCA Delegate ILyle Anderson Lyle Anderson
CACCA Delegate 2OPEN
Education Peter Pelke II Peter Pelke II
Advisor David Jilek <u>davidjilek@sbcglobal.net</u>
Advisor Jim Pierce downtownprophoto@sbcglobal.net
Facebook Administrator Scott Migaldi <u>n8116b@gmail.com</u>
Membership OPEN
Publicity Roger Willingham rowham40@sbcglobal.net
Competition Jeff Chemelewski jeffchem@ameritech.net
Assistant Ernie Hagenow
Assistant Mariela Ryan

whatsoever without the express written consent of the CLCC Newsletter Editor.

Small Groups Maureen Harris parcon 129@gmail.com

Librarian Bob Cairone robertcairone@gmail.com

Outings Andrew Gruber <u>acg66@att.net</u>
Refreshments Larry Swanson <u>unkllarry@aol.com</u>

CLUB INFORMATION

The Crystal Lake Camera Club (CLCC) normally meets on the first Tuesday of every month at 7:00 p.m. at

Home State Bank 611 S. Main Street - Crystal Lake, IL Community Room (lower level)

Guests are always welcome at our monthly meetings. Our competition season starts in October and ends in July of the following year. It is comprised of four competitions (held during regular monthly meetings in October, December, February and April), followed by a July competition to determine the club's Print of the Year award. Dues are \$25 per person per calendar year.

We currently have 87 members whose level of photography expertise runs the range from novice to professional. The benefits of membership include basic to advanced classes, differing levels of mentoring, small group opportunities, competitions, photo outings and meetings featuring presentations on specific topics.

The club newsletter is published and distributed electronically twelve times a year on the last Tuesday of every month. @

CLCC IS A MEMBER OF THESE ORGANIZATIONS



http://www.caccaweb.com/



https://www.psa-photo.org/

Assistant Teresa Baber
Assistant Larry Swanson

PRESIDENTS' COLUMN

LAST CALL! LAST CALL!

You know, it seems like only yesterday we began writing these President messages, and now it's come time for the last one.





Times change, we all know that. Some of the changes are welcomed while others leave a plethora of mixed emotions.

Speaking for Al and myself, I think this has been one of the most rewarding adventures of our photo careers. As co-Presidents we thought that education was a major factor in what folks wanted in a camera club and; therefore, moved CLCC in that direction. And golly, it turns out we were right with an overwhelming response. Your excitement in wanting to learn drove us to answer that call with energy.

This has been a fun trip for us. Listening, coordinating, presenting, soliciting and yes, laughing for a great five years of fun. Think about it, "FUN" is what we wanted to make this club all about.

Behind the scenes, every month, a great number of members sought us out and volunteered their time and effort to make our club one of the largest and most complimented camera clubs in the Chicago area. We can't tell you how many times other clubs contacted us for information on how we do what we do. The simple answer is finding out what members are looking for and getting other folks involved. Yet how do you explain the myriad of activities behind the scenes, and the generosity of the many members who do the "grunt" work? As Al and I have stated many times, this club is all about you. You are the foundation making CLCC so welcoming and special.

Change is coming. New ideas and new leaders are necessary for our great club to grow and prosper. We all know this is the natural ebb and flow of organizations. Change, as difficult as it is sometimes, usually turns out for the best.

Some have suggested that we set the bar too high and no one can attain or maintain our success. Those comments humble us. Yet five years ago, we felt that exact same way taking over the reins from *Lyle Anderson*. Talk about setting a high bar. Simply put, we did "what we did", and the persons who step up as our next leaders of this talented bunch of photographers will do just fine creating new heights. The only requirement is that they just have fun, and find joy in maintaining an environment that helps other photographers to grow in their craft. It's really a great hobby.

Al and I thank every one of you for your support and friendship during our time as co-presidents. We look forward to hanging with the members in the mezzanine seats every month watching the new team continue with their own passion and love of photography that we all experience. One thing we do know is that our new leaders really will have a fun time... Here's to the future.

Chuck & Al

FROM THE EDITOR

Rich Bickham

It's December - the end of another year already. How time flies when you're having fun (with photography). I hope you have taken time to enjoy our hobby over this past year. I know I have.



December is also the start of another cold winter. But it's really not that bad here. On page 6 of this issue I've compiled several pictures from some of the coldest places on Earth. One might surprise you - it's in the "lower forty-eight" in the eastern half of the country. This month's Iconic Photograph of the Month goes back to an "infamous" day in American history - see page 5. There is a short review of *Tom Snitzer*'s club presentation at our November meeting on page 4. As always, Tom gave a great presentation.

There are more winning photos from our club's October competition on pages 7 - 10, including one which won Best of Show at the November CACCA competition! Don't forget that the December club meeting is another competition night. I encourage you to participate.

This month's Tip of the Month on page 11 describes how I created the Santa collage on the cover page of this issue.

The usual Humor section, this month with a holiday theme, can be found on page 12.

As most of you know, I announced my resignation as Newsletter Editor last summer, effective at the end of December (that's this month). However, since the newsletter is published on the last Tuesday of each month, I will be creating one last issue - the January, 2019 issue, which is scheduled to be distributed on Christmas Day. After that, I am not sure who will be responsible for the newsletter and what form it will take. Whoever takes over, I certainly hope you will support him or her by providing club and photography information you would like to share with club members and other readers.

I plan on continuing as an active member of the club, and have submitted my name as a candidate for CLCC Secretary. Election of new officers will be discussed at the December 4 meeting.

I wish you all a safe, healthy and wonderful holiday season. §





Alaska Landscape

© 2013, Rich Bickham

TOM SNITZER PRESENTATION AT NOVEMBER CLCC MEETING

Rich Bickham

Tom Snitzer, a professional photographer from Arlington Heights, spoke at the November CLCC meeting about his several week photo excursion to the Dakota Badlands, Yellowstone National Park, Tetons National Park, San Juan National Forest, Arches, Canyonlands and other photogenic sites out west. The presentation included how he planned for this lengthy journey and some techniques used in post processing. The map on the right shows the locations he visited.

Prior to the main part of his presentation, Tom briefly talked about new technology for Nikon, Canon and Sony mirrorless cameras. Extensive notes about the new camera capabilities were emailed to club members prior to presentation.

Tom then proceeded to discuss and demonstrate some of the new features in the latest version of Lightroom, many of which he now uses in his editing workflow. This was a good segue into his main



Guest Speaker Tom Snitzer (L)

presentation topic of "Chasing Fall Color out West".

Several of the images he showed can be seen on his website at

http://blog.snitzerphotography.com/adventures/template-10/.

His presentation included a thorough discussion of the editing of many of those images.

For many of his shots he showed the original (as-shot) image along with the final (post-edit) image. He explained the steps in his editing workflow and passed along many excellent tips showing what is available in the latest version of Lightroom to save editing time. Several examples are shown below and on the right.

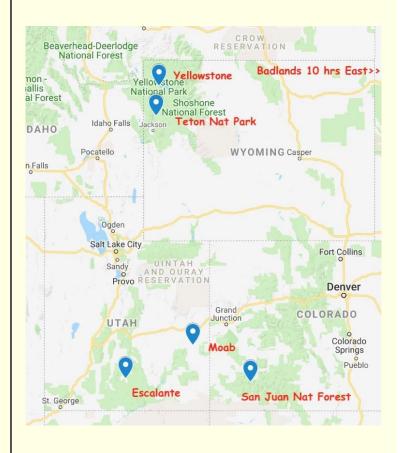
Thanks, Tom, for a thoroughly enjoyable and informative presentation!

Bringing color to a dull photo: Badlands





- Easy to capture. Post sunset alpenglow. Make sure not to overexpose sky
- Exposure (20)
- Clarity (13)
- Dehaze(16)
- Tone Curve (Dark -12, Shadows -13)
- HSL: Saturation (red 56, orange 69, purple 63, magenta 64), Luminance (red -56, orange -40).
 Ergo bringing out the alpenglow colors in the sky which also reflect on the foreground.
- Selective brush on the sky (temp -22, saturation 16)
- · Selective brush on the foreground (exposure .93, saturation 59)



Making an interesting photo out of mush: Escalante





- Capture: Carefully expose for sky without overcooking red channel. Bring out foreground in post.
 Imagine how light might hypothetically hit gorge and surrounding mountains. Be creative.
 - Exposure 40
- Clarity 12, Dehaze 13
- HSL Hue (orange -10), Saturation (orange 60, blue 16), luminance (blue -18)
 Calcating broads of sample (orange -2.15 town -2.2).
- Selective brush front of canyon (exposure 2.15, temp 22)
- Selective brush plaque behind canyon (exposure .78, temp 13, saturation 19)
- Selective brush mountain range in rear (exposure 1.95, temp 28)

Recover some tricky dark details: San Juan's





- Capture: Exposure is critical. Trees very dark. Push exposure till just before the yellow
 background clips, then bring up dark trees in post. Recover tree detail using a color mask
 (previously you'd need to work in Photoshop to accomplish this).
- Exposure .68
- HSL Panel Saturation (orange 50, yellow 30), Ergo pop the background.
- Selective brush with color mask (tree trunk color: temp -5, exposure 2.61)



ICONIC PHOTO OF A DECEMBER DAY IN HISTORY

Rich Bickham

fter the Allied victory in World War I, the United States adopted a doctrine of isolationism, determined to make itself self-reliant and not dependent on other nations to grow and thrive economically. Along with this philosophy came a foreign policy of divorcing itself from interference in other nation's struggles and wars. Even during the Great Depression of the 30's U.S. foreign policy remained pretty much unchanged. During this time much of the rest of the civilized world began a steady effort to expand their power and spread their influence by seizing political power within their countries and exerting their military power outside their countries by invading and seizing territory. The Japanese began in China and threatened Korea and French and Dutch interests in other parts of Asia and the western Pacific. Meanwhile the rise of Nazi Germany did the same in Europe leading to the onset of World War II in 1939.

While providing some aid to Europe in the early 1940's the U.S. was able to stay out of the fighting in both Asia and Europe, primarily because of the two vast oceans that physically isolated it from the action. Despite this, Japan became quite concerned about American military might as it continued its expansion, and on December 7, 1941 launched a surprise air attack on the U.S. Naval Base at Pearl Harbor on the Hawaiian island of Oahu. Supported by three aircraft carriers, Japan devastated the U.S. Pacific fleet. The USS Arizona and the USS Oklahoma were destroyed with great loss of life, and six other battleships suffered varying degrees of damage. Three cruisers, three destroyers, and other vessels were also damaged. U.S. military casualties totaled more than 3,400, including more than 2,300 killed. 180 U.S. aircraft were destroyed.



USS Arizona

HTTPS://WWW.CSMONITOR.COM/USA/2009/1210/P02S04-USGN.HTML

Reuters

The photograph above shows the *USS Arizona* as it sank in the harbor; it was never raised, nor were bodies recovered from within the wreckage. It is now the site of the Pearl Harbor Memorial.

Fortunately the three aircraft carriers of the Pacific Fleet were out to sea on maneuvers when the attack happened. Also fortunate was the fact that the attack focused completely on the ships in the harbor and aircraft on the ground. The Japanese ignored the many large storage tanks in the fuel depot which contained nearly the entire supply of fuel for the U.S. Pacific fleet.

As a result of the attack, the pacific Fleet home base was relocated to San Diego, CA. The U.S. declared War on Japan and a few days later on Germany. World War II was fully underway.

WINTER PHOTOS



State Street Holidays

© 2017, Rich Bickham



The Hollows in January

© 2018, Rich Bickham



RANDOM PHOTOGRAPHY TOPICS -COLDEST PLACES

Rich Bickham

7 inter in Crystal Lake is not so bad when compared to some places on Earth. Here are a few winter photographs from a few of the coldest places on our planet.

Yakutsk, Siberia

With a population of about 285,000 people, it is the second coldest city on Earth. In the dead of winter the average daily high (low) temperature is -31°F (-43°F). The coldest recorded temperature is -84°F. Photographer Steeve *Iuncker* shot the photo below before his camera froze up while outside for only fifteen minutes. It is not unusual for his film to crack in such extreme conditions.



Yakutsk, Siberia

Steeve Iuncker

Oymyakon, Russia

1TTPS://www.nationalgeographic.com/photography/proof/2018/01/Coldest-city-siberia

HTTP://BOREDOMTHERAPY.COM/COLDEST-TOWN-ON-EARTH/

The coldest town on Earth has a population which varies seasonally but averages about 700 people. The coldest recorded temperature on record in Olymyakon is -91°F. Outhouses (such as shown) are a must since the ground is much too frozen for plumbing of any sort.



Oymyakon, Siberia

Amos Chapple

Utqiagvik, Alaska

Formerly named Barrow, Utqiagvik has a population of about 4,400. Its coldest recorded temperature is -47°F. The below photo is a typical view in Barrow, at about midday.



Utqiagvik, Alaska

Jeffrey C. Hall

Mount Washington, New Hampshire

The Mount Washington Observatory near the summit of Mt. Washington is about 6,700 feet above sea level. Its lowest recorded temperature is -47°F in December of 1934, and its highest recorded wind speed is 231 miles per hour in mid-April of 1934. 1934 would not have been a good year to be working at the observatory. Under such conditions, rare weather phenomena can occur, such as wind-generated rime ice that has cantilevered onto the post edge of the elevation sign.



Mt. Washington

Mount Washington Observatory

The South Pole, Antarctica

The South Pole has no permanent human residents, but it does have a rotating group of researchers and support staff who visit and work throughout the year. Its coldest recorded temperature is -117°F in June, 1982.

So enjoy the wonderful relative warmth of a Crystal Lake winter. Be sure to capture the beauty of the season with your camera. But don't forget to stay safe and protect your equipment. South Pole James Roth



OCTOBER COMPITITION WINNERS

ere are more winning photos in the October CLCC and CACCA competitions which were not included in the November issue. They are shown uncropped and resized such that each is shown with the same printed area while retaining its original aspect ratio. The single exception is **Sandra Wittman**'s DPI entry "After the Harvest" (shown at the bottom of this page) which is printed larger than the others - it won Best of Show at the November CACCA DPI competition.

November CACCA print winners are:

Sandra Wittman:

"Moss on Lava" Large Color - Award

Jeff Chemelewski:

"The Grace and Beauty of Winter" Large Color - Honorable Mention



Mountain Snow

© 2018, Norm Kopp

DPI - CACCA BEST OF SHOW



After the Harvest © 2017, Sandra Wittman

See Winners, Page 8



Crystal Lake Train Station Gazebo

© 2018, Tom Hughes



Revolutionary War Reenactor - Blacksmith

© 2015, Lyle Anderson

Winners2, from Page 8



The Beauty and Grace of Winter

© Jeff Chemelewski



Christmas at the Baker House

© 2017, Tom Hughes

Winners3, from Page 9



Moss on Lava © 2018, Sandra Wittman



Old Faithful Eruption

© 2018, Rich Bickham

TIP OF THE MONTH

Submitted by Rich Bickham

HOW TO MAKE A PHOTO COLLAGE

epending on the subject matter, the technique I use varies. What I describe below is how I made the collage on the cover page of this issue. It portrays an array of individual photographs I took of some of my wife Elaine's many Santas that go on display every December in our home.

First I take individual photographs of each Santa. I use a tripod with the height adjusted for convenience. For each shot I place each Santa on a flat platform with a black background. In this case I used a 16x20 black mat and an end table with a few books on top. The Santa sits on the books (which I change out for major height adjustments). Once in place I fine tune the height with the center post of the tripod (so I don't have to mess with the legs).

I use a macro lens with manual focus. I usually (but not always) focus on the eyes. The size of each Santa is different so I adjust the depth of field such that the largest Santa I'm going to shoot looks reasonably sharp. I use indirect lighting to avoid shadows, and a slow shutter speed with a remote trigger.

After shooting all the Santas, I start editing them (I use Photoshop Elements 2018). For each image, I edit as appropriate (brightness, contrast, ...) and convert it to a .png file. I add a duplicate layer on which I select only the Santa, invert the selection and delete it. I then delete the original layer, leaving only a single layer with a Santa image on a blank (not black) background. I then resave the .png file.

After the above step has been completed for all the Santa .png files, I create a new collage canvas of a convenient size and select a background color (in this case black). Then I create a new layer for each Santa .png file and paste the image into that layer of the collage canvas. As each image layer is added I adjust the Santa images size, position and orientation, and perhaps reorder the layers. This can be a tedious process.

Finally I change the collage to the desired size, with all of the individual layers intact (so that each Santa layer can be moved around and adjusted independently at a later date if desired). I save the file, then flatten the image and save it again under a different file name to use for printing and emails.

After completing this column I realized the example Santa shot I used was not used in the collage so don't bother looking for it. My daughter Jessica suggested it is a Secret Santa!

LINKS OF THE MONTH

Submitted by Jim Petersen

his is pretty cool if you haven't seen it. Chicago in time lapse!

https://player.vimeo.com/video/126726117?portrait=0

Submitted by Sandy Wittman

Foreign fields in a new light.

https://www.bbc.com/news/in-pictures-46150567











OPPORTUNITIES

et your photography questions answered or your problems solved with our "Ask A Pro" program. Submit your queries to downtownprophoto@sbcglobal.net, and also send a copy to biggieman760@gmail.com. Jim Pierce will then provide an answer or solution to your inquiry personally, and it will be included in the next newsletter.

The front page image of the newsletter will be chosen from entries received from club members. Your entry must be received by the newsletter input deadline shown in the club calendar on the last page of each issue. Email a jpg image to biggieman760@gmail.com with the subject line "Front Page Image Entry - Month", where Month is the intended newsletter issue month. The image should be in portrait orientation with an aspect ratio of approximately 1.2. While not required, preference will be given to seasonal images.

CLCC members who would like to share their knowledge or learn more about photography are encouraged to participate in the club's mentor program. Its purpose is to forge cooperative relationships that will help improve member photographic skills. If you have a particular skill or expertise that you are willing to teach others, or if there is a particular skill that you are trying to learn or improve, mentor program coordinator *Paul Minkus* will try to pair you up with someone. Just contact Paul at pminkus@comcast.net or at (847) 975-9946 if you are interested in participating.

FOR SALE or WANTED FOR PURCHASE *

No ads this month.

* Items are restricted to functional photography equipment. Ads will run in only one issue per submittal. You must submit another request for each subsequent issue. Ads are published for the convenience of club members. All transactions are to be conducted solely between the buyer and seller. CLCC will not be a part of any negotiations and will assume no responsibility for equipment quality or seller claims. Ads should include a brief description of the item(s), condition, contact information and asking price (optional). CLCC reserves the right to edit requests that are deemed too lengthy. Requests must be sent to biggieman760@gmail.com with the subject line "Ad Request". Requests received on or prior to the next newsletter input deadline will be published in that month's newsletter.



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© 2016, Rich Bickham

HOLIDAY HUMOR

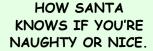
DID YOU HEAR SOMETHIN' HAL?







I want a 24megapixel, f/2.4, 18-200mm, full frame, Nikon DSLR with a 32GB SD card and a Speedlight.











HTTPS://www.pINTEREST.COM/PIN/314759461440283747



ASK A PRO

Jim Pierce
Send your questions to:
downtownprophoto@sbcglobal.net

Please do not submit <u>model-specific</u> questions about cameras.

Jim did not receive any questions this month.



§

SHOW & TELL CHALLENGE

There will be no December meeting Show & Tell Challenge since it is a competition night. Show & Tell will resume in January with the subject

"BABY IT'S COLD OUTSIDE" @



SMALL GROUPS

Summary of upcoming CLCC Small Group activity.

Advanced Post Processing

Host: Maureen Harris - parcon 129@gmail.com

Next Meeting*: TBD

Learning various aspects of post processing with topics suggested by the group. Discussions on Lightroom, Photoshop, Elements and other currently available post processing software.

Nature & Landscape

Host: Chuck Rasmussen - crystallake_cameraclub@yahoo.com

Next Meeting*: TBD

Enjoy learning the many facets involved in taking beautiful photographs of anything in nature.

Photoshop Elements

Host: Al Popp - crystallake_cameraclub@yahoo.com

Next Meeting*: TBD

Exploring the many tools Elements offers for creating great images.

Lightroom

Host: Ron Johnson - Johnson5135@aol.com

Next Meeting*: TBD

Learning to use Adobe Lightroom software.

Macro Photography

Monitor (changes monthly): Larry Lezon - Lezon3@aol.com

Next Meeting*: TBD

Exploring methods & techniques of extreme close up photography, where the subject is shown near or larger than life size.

The Architecture Photography and Street Photography small groups are currently inactive and need hosts. If you have interest in hosting any one of them, contact Maureen Harris at parcon 129@gmail.com.

Contact Maureen Harris if you have questions or problems with your small group, or would like to start a new small group.

* Next meeting dates are correct as of the newsletter publication date (the last Tuesday of the preceding month). They are subject to change and should always be verified by contacting the host or monitor.



2018 PSA Newsletter Contest Large Clubs Category HONORABLE MENTION Overall Best Calendar Presentation



2017 PSA Newsletter Contest
Large Clubs Category
FIRST PLACE Overall
Best Use of Color
Best Calendar Presentation



2015 PSA Newsletter Contest Small Clubs Category THIRD PLACE Overall Best Variety of Material

NON-CLUB EVENTS & PHOTO-OPS

ILLUMINATION

One Mile Walk, Trees Lit With Color & Seasonal Music Saturday, November 17 Through Tuesday, January I Closed Mondays (except December 31)

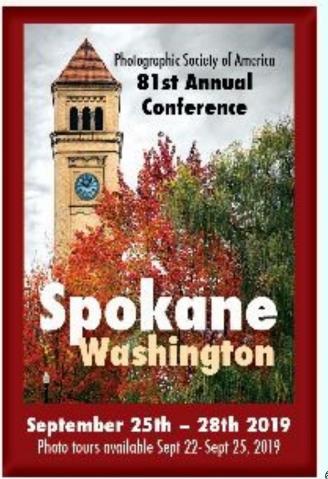
Also closed Thanksgiving Day, Christmas Eve & Christmas Day Open 4:30 to 9:30 p.m. - Last Entry 8:30 p.m.

Check https://www.mortonarb.org for Admissions Fees

Morton Arboretum

4100 IL Route 53

Lisle, IL





CALENDAR OF COMING CLUB EVENTS - DECEMBER, 2018 - JANUARY, 2019

DATE	TIME	LOCATION	DESCRIPTION	NOTES	
December 4, 2018	6:15 - 7:00 p.m.	Home State Bank	Drop in early mentoring	1	
December 4, 2018	7:00 - 9:00 p.m.	Home State Bank	CLCC December meeting : Competition Night	ight I	
TBD	TBD	TBD	Saturday morning PhotoBug breakfast meeting	2	
December 8, 2018	12:30 p.m.	Christian Church of Arlington Hts.	CACCA December Meeting & Competition	4	
December 18, 2018			Deadline for January newsletter inputs	3	
December 25, 2018			January newsletter distribution target date		
January 8, 2019	7:00 - 9:00 p.m.	Home State Bank	CLCC January meeting : Speaker TBD	1,5	
January 12, 2019	12:30 p.m.	Christian Church of Arlington Hts.	CACCA January Meeting & Competition	4	

Notes:

- I) CLCC meetings are normally held the first Tuesday of every month at the Home State Bank, located at 611 S. Main St. in Crystal Lake. It's the large building behind the drive-up facility just southeast of the intersection of Route 14 and Main Street. The meeting is in the Community Room on the lower level take the elevator just inside the east entrance.
- 2) The PhotoBug Breakfast is temporarily suspended due to the Colonial Café closing.
- 3) Email to biggieman760@gmail.com .
- 4) The monthly CACCA delegates meeting and interclub competitions are held on the second Saturday during the months of October through the following May at the church at 333 W. Thomas Street in Arlington Heights. Those interested in attending should contact Lyle Anderson at crystallake_cameraclub@yahoo.com you may be able to catch a ride.
- 5) The January club meeting has been rescheduled to the second Tuesday of the month (1/8/19) due to the New Year's Day holiday.



SEPTEMBER, 2018				OCTOBER, 2018								NOVEMBER, 2018								ИВЕГ	R, 20:	18		LONG TERM SCHEDULE				
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9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	CLCC EVENTS ONLY
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	
30																					30	31						Meeting
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13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20	
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27	Newsletter Publication Date
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	28	29	30					
														31														CLCC Class
		MA	ΔΥ, :	2019					JUI	NE, 2	019					JUI	LY, 2	019					AUG	UST,	2019	9		CLCC Outing
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			1	2	3	4							1		1	2	3	4	5	6					1	2	3	Special Event
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	
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