

range Bytes



Volume 41 No 10

October 2016

\$1.25

NOCCC Meetings for Sunday October 16, 2016

Main Meeting 1:00 PM - Photography

Larry Klees a lifetime thoughtful photographer will continue to delight us with another main meeting presentation. Larry has been running the Advanced Digital Photography for years and recently added the Beginners Digital Photograph SIG as well.

Special Interest Groups (SIGs) & Main Meeting Schedule

9:00 AM – 10:30 AM

Linux for Desktop Users.....Science 131

Beginners' Questions about Linux

Beginners Digital Photography..... Science 131A

Questions and Answers about Digital Photography

10:30 AM – 12:00 PM Noon

PC Q&A & Computer talk.....Irvine Hall

For anyone that wants to talk about computer stuff.

Advanced Digital Photography..... Science 131A

Questions and Answers about Digital Photography

Linux Administration.....Science 131

More topics about the Linux operating system

Mobile Computing.....Science 109

We will talk about smartphones, tablets, and computer news.

VBA and Microsoft Access/Excel..... Science 127

Using VBA code to enhance the capabilities of Access and Excel

12:00 PM Noon – 1:00 PM

Advanced PC Q&A Irvine Hall

PC hardware, software and Internet topics

PIG SIG.....Hashinger Courtyard



Bring your own lunch and consume it at the open-air benches next to Irvine Hall.

1:00 PM – 3:00 PM Main Meeting

Digital Photography

Past & Future

.....Irvine Auditorium.....

3:00 PM – 4 PM

Board Meeting.....Science 131A

To update membership information

membership@noccc.us

Plan your vacations around these meeting dates

2016: Nov6, Dec4.

2017: Jan8, Feb5, Mar5, Apr2, May 7.

Coffee, cookies and donuts are available during the day in the Irvine Hall lobby.

Foods and drinks need to remain outside the Auditorium.

LIFE BEGINS AT FORTY

“Friends Helping Friends” since April 1976

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More Club email addresses

editor@noccc.us
membership@noccc.us
help@noccc.us

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Board of Directors

Board of directors email list

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Always use these Club email addresses so you do not have to update your contact information every time a personal email address or the board of director roster changes.

Club Business

Board Meeting Minutes August 7, 2016

Secretary's report by Bob Dickson

The President's Report

President's report by Ben Lochtenbergh



The highlight of the month was that we had our scholarship award ceremony conducted by Dr. Don Armstrong as Treasurer of NOCCC. He presented \$1,000 checks to two students who also performed the main meeting presentations. See Main Meeting report by Jim Sanders.

I took a number of smartphone photographs, all of poor value, the best one published here of Don presenting a check. The quality of my emergency phone's photographs did not come out too well. I bought this phone in Curaçau having little time and no Internet access. I was happy to find a store that sold smartphones so I could reconnect with today's online World.

The new smartphones I am considering should fix the picture quality problem and improve my pictures in the future. Better yet, another member should volunteer taking main meeting pictures and email them to editor@noccc.us.

president@noccc.us

The meeting was held in room 131A at Chapman University Science Hall. The meeting was called to order by President Ben Lochtenbergh at 3:30 PM. Present were: Ben Lochtenbergh, Bob Dickson, Terry Dickson, Larry Klees, Dennis Martin, and Gerry Resch. Absent were: Don Armstrong, Jim Sanders, and Richard Miller.



Secretary's report: Bob distributed copies of the minutes for the 7/10/2016 meeting. Gerry moved to approve, Dennis 2nd, approved.

President's report: Ben reported that Richard was unable to attend the meeting today due to health problems, Don was on a trip, and Jim had some personal business to attend to. Ben announced the pizza and drinks on the side table were paid for last month but were not ordered in time so the board will have pizza and drinks at this meeting.

Treasurer's report: Due to Don's absence, no figures were presented regarding the bank balances.

Bob reported a member paid for 1 year dues in cash (\$35.00). He reported the member paid in cash because his check either wasn't deposited or was lost and his copy of the Bytes had the notation about being the last copy. Bob gave the member's name to Ben. Ben will update the database showing the dues have been paid.

Bob reported that the donuts and cookies cost \$24.98 and income for them was \$22.50.

Bob reported that two cell phones donated by the eWaste company were purchased by a member for \$5.00 each. Since the cell phones were donated

to the club, the full \$10.00 will remain with the club, no payment to the donor.

Ben reported that the payment for the club's insurance is due in September. He noted that the investigation he's done for a possible new insurance provider has not revealed anyone with a better offer or at a better price, so he will contact the current insurance company to renew the club's insurance for the coming year at the cost of \$98.00 per month. Ben said he would also check if the insurance provides coverage for all of the directors. It was suggested that Ben check to see if a single annual payment would be less than the 12 monthly payments. There was general discussion regarding the annual payment. Dennis moved to stay with the same insurance company and to make a single annual payment rather than the 12 monthly payments. Gerry 2nd the motion. All voted to approve the motion.

BYTES report: Bob noted that he received the 6 extra copies which he placed on the entrance table for new members or guests to pick up. He received his copy and the 6 extra copies several days before the meeting.

Raffle report: Gerry thanked Bob for the donated raffle prizes so the prizes for this month were at no cost to the club. The raffle income for tickets was \$26.00. Gerry reported only 5 people purchased tickets but there were others who presented parking passes to get tickets.

eWaste report: Bob noted he provided several items to the ewaste people. He noted they had received several old computers and other items so it was a good month for them.

Consignment table: Due to Richard's absence, Bob cancelled his SIG session in room 127 and moved his computer to the main hall entrance to provide coverage for the consignment table and to provide reception info to any visitors. Bob noted there

were a few items on the table. The ewaste people donated a laptop and 2 cell phones. Other items were placed on the table. The 2 cell phones were sold for \$5.00 each. The suggested price for the laptop was \$140.00. It was not purchased. It was locked in the cabinet to be used at a later meeting. The other items on the table not purchased were taken back by the person who had placed them there.

Main Meeting report: Mark Hammon continued the presentation on DNA and the computer that he'd started at the July meeting. His presentation was informative and much appreciated. Ben expressed his appreciation for Mark's support of the club.

Ben noted that for the September meeting presentations will be by each of the 3 scholarship recipients. For the October meeting, Larry will make a presentation on digital photography. The November and December presentations have not been determined yet.

Ben commented that he might try to get the Microsoft guy to come back and maybe do some more presentation on Windows 10. Many people are still trying to get comfortable using it.

Due to Tom and his wife being on a trip, Bob came in early and set up the tables and prepared the coffee and tea. Bob noted the difficulty working with the locks on the cabinets in the storage room. They are difficult to get to open. He was fortunately able to get them to open but they need to be looked at.

Members' badges: Gerry reported that he'd called some of the members who apparently were waiting to get a badge. He reported that many of them either had old an old badge or had let the membership lapse. The punch is still missing. John Heenan said he'd given it to Don but Don reported he hasn't seen it. Gerry checked on buying a new one but the cost was \$88.00 so he hasn't ordered one yet. Gerry will work with Don to get the badges situation under control.

Main Meeting Report and SIG Reports

Main Meeting Report September

Board Communication: Terry asked about the Google service that Ben has been attempting to use. There seems to be some difficulty with it. Bob noted that he tried to respond to a message that Ben sent through the Google service but it wouldn't accept input from Bob so Bob used the old email address. Ben commented that he's trying to use the Google service but needs to get more understanding of its limitations. Ben commented that he may use his September SIG session to present the Google service to those present so they can see it and comment on it. Ben noted that Google is secure so he wants to use it if possible. Terry agreed to be a test guy for Ben to use to send him messages and try to clear up any misunderstanding.

Web site report: Jim was not present so no report on its status. General comments were that the site needs to be cleaned up as soon as possible as it is not functional in its current state. Ben expressed his appreciation for Jim's willingness to work on it.

Museum project: No change from the last meeting date. Many persons are stopping to review the items in the cases.

Attendance: There were 20 persons at the main meeting. Linux AM had 6 and Linux PM had 5. The photo SIG had 6. Ben's SIG had 12.

Adjourn: Gerry moved to end the meeting. Larry 2nd. Approved. Ben declared the meeting ended at 4:31 PM.

Submitted by: Bob Dickson, Secretary

James Wimberly was the first of the two recipients of the North County Computer Club's \$1000 student scholarship awards doing a presentation today. The third recipient will do a presentation at a later date. All of the presenters are tasked with developing a presentation for the club members that highlight some aspect of their studies and experiences at Chapman University. Mr. Wimberly has received a Doctors Degree in Mathematics from Chapman University. He is currently pursuing a Master's Degree in Computational and Data Sciences at Chapman. He is also a teacher's assistant for two classes on the campus. He said that as a result of participating in those two classes as a teacher's assistant, he has been bit by the teaching bug and will pursue that as well.

His main presentation was on an app called Slack. Slack is a cloud based team collaboration tool. It is available from www.slack.com It has a real-time messaging app that has some resemblance to Facebook, however it is private. He said that for a two year old app that it has grown explosively. It now has 1 1/4 million daily active users, 370,000 paid users, 330 paid employees, and \$335 million in annual recurring revenue. It has achieved all of that with very little expense for advertising. Most of its growth has been word-of-mouth referrals. I went to the Slack website to get details about what they have to offer.

On the home page of their website the first menu item is Product. When you click on Product it takes you to a new webpage that scrolls through all the features that they offer in their product. It includes a fairly comprehensive video and a large number of positive facts about its advantages. The second item on the menu is pricing. Pricing is broken down into three categories. One that is free, and two for money. As "Free" is the category that I feel confident appeals most to club members, below is the description of that category.

"We offer a free plan for small teams, casual users, and anyone who wants to evaluate Slack.

Since we've never liked time-limited product trials, you can use our Free plan to take as long as you want to try Slack and see if it works for your team. There's also no limit on how many people you can add to your team on Slack. If you're happy with our Free plan, please carry on. When your team needs more, you can easily upgrade to one of our premium tiers."

I could say that Mr. Waverley's presentation was based on a PowerPoint slide presentation, but that wouldn't quite be true. His slide presentation included some cute, clever, and entertaining animations. Those animations were the result of using an app called PowToon, available from www.powtoon.com. What we saw was the results of using the free version of PowToon and did include some advertising. Still, I was impressed and I think you might find it enlightening to go visit their website.

William Minniear is a recent graduate of Chapman with a double major in Mathematics and Computer Science. He is currently pursuing his Master's Degree in Computational Data Sciences which he hopes to finish soon. He was recently hired as a software engineer at the Boeing Company.

His presentation was on Scene Carving technology. The stated goal of this technology is to reduce the size of the image while retaining the most important features of the image at close to their original importance and size. Through an involved procedure that converts a color image to black and white, assigns each pixel an importance value, then mathematically traces a path of least important pixels that can be removed across an image. The image that he used as an example was a picture of a beach scene. There was a lot of sand and water in the foreground, a sand peninsula extending to the right middle of the photo, a group of palm trees at the left middle edge of the photo, and a lot of sky with clouds. While the result of the mathematical algorithm kept the palm trees at close to their original size while reducing the rest of the picture, it did so with a level of distortion that I did not care for. In his example of a really busy photograph that contained a group of people, the distortion was totally unacceptable. While I thought it was an interesting concept, and the way in which the image was mathematically evaluated quite clever, I failed to comprehend the practical application for the algorithm. I think the image manipulation tools that

are available in the commercial products produce results that I prefer. Still, the presentation was interesting and I did learn something.

Main meeting report by Jim Sanders

Main Meeting for October

Modern camera sensors, computer displays, printers and media are continuing to improve and there is no end in sight. Today's digital cameras can literally take pictures that were impossible just three years ago. After a brief history we will look at some of the new developments.

Main Meeting for November

Douglas Woodward will demonstrate "Automated Testing." Ben Lochtenbergh, if needed, may do a PowerPoint presentation about Automated Testing, big money, and high volume processing circa 1983.

Main Meeting for December

Open: the board will take recommendations.

Main Meeting for January

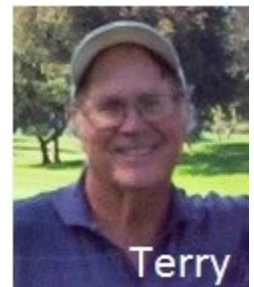
Waiting for board approval of a demonstration of the latest 3D printers praised by Gerry Resch.

Linux SIG

By Terry Dickson of the Linux SIG

This month's Sig meeting was cancelled due to the sig leader not being able to make the meeting. I was not able to address a topic for the month's meeting. So we only reviewed the new version of **Ubuntu 16.04.01**

LTS (long term support) The new version 16.04.01 LTS pulls together the bug patches, app updates, and security fixes issued to the



release since its debut of version 16.04 LTS back in April. I will spend this month testing the new version and have some feedback for the Oct meeting.

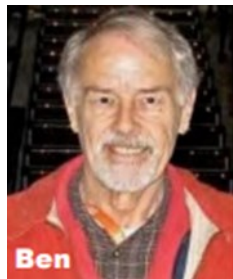
Have fun using and playing with a Linux Distribution

This SIG meets in Science 131 at 9:00 a.m. and 10:30 a.m.

Mobile Computing

By Ben Lochtenbergh, Mobile Computing SIG Leader

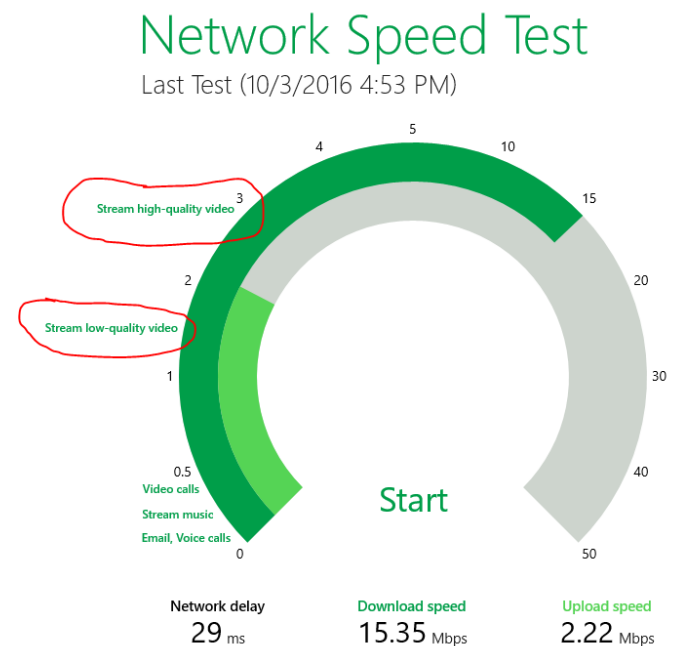
Thanks again for such a nice attendance in September. Actually, we started 90 minutes before the official SIG time doing team debugging of the board@noccc.us email feature. The way it works is when I send one Gmail to board@noccc.us all nine board members receive that email via their club email address, forwarded to their personal email. This has worked fine! For the club's email addresses see page 2 of the Orange Bytes always. If I send from a non-Gmail account it must be authorized by the monitor, me. It may take days before I authorize it. Not so good! I have assumed the same is true for others emailing to board@noccc.us. How can I know for sure? Terry Dickson was so nice to be a test partner with this. Dennis and Bob who indicated they had issues were invited too. We started 9 a.m. in Science 109, Terry sacrificed his leadership in the Linux SIG, see his SIG report, and we worked on it for more than an hour. We learned things but we did not get exactly what we wanted. This type of testing cannot be a we-consider-everybody's-issue session, to keep the process cohesive, yet there were a surprising number of onlookers. Unfortunately, a perfect solution has not yet been found.



About the MC SIG, with my new cheap Lollipop (Android 4.4) smartphone ran into a number of shortcomings that later versions of Android do not have. The most interesting is that the hardware does not support MHL (Mobile High-Definition Link). We have been using that to display the phone's screen via the overhead projector. Many phones do not have HDMI (High-Definition Multimedia Interface) which the projector (or TV at home needs), but the

MHL adapter uses the phone's USB (Universal Serial Bus) port to create an HDMI output signal. Well, **this does not work with** my new old BLÜ phone! I tested it at home and sitting in my lazy chair with a long HDMI cable does not work anymore. What now? Will a Chromecast \$35 device work to see my vacation photos on my phone wirelessly on my TV?

Tom Feeley contributed to the Orange Bytes 40th anniversary issue (April 2016) a report on how to do this! See image about acceptable low and high-quality video streaming speeds, a concern of many.



I hooked a \$35 Chromecast device to an HDMI cable on my TV and a USB cable to a wall socket adapter. This takes care of the wired signal & power needs. Everything else has to be wireless I assumed. How does the TV know about the HDMI cable? The Source button on my TV remote can select HDMI 2, the one connected to the Chromecast device. Actually, the selection screen is so specific that it also shows **CEC Chromecast**. Either selection works. How does my phone (or tablet or laptop PC) wirelessly communicate with the Chromecast device? Does it need an app? In Google Store, I found the Google Cast app. With the Internet (Wi-Fi) on in my house, I got it to connect! At first, I got it to do Google Internet content like YouTube. To work with photographs on my phone I found another app LocalCast. That worked. Now I can sit in my recliner chair and with my wife watch my latest 385 vacation photos stored on my phone. Later I discovered using

Google Cast to watch a slideshow of Albums stored in the Google Photos cloud wirelessly.

I am thinking about starting the next MC SIG a ½ hour early in October. I will bring my Chromecast to test if it works with the overhead projector in Science 109. If that works I will play an album of the 40th anniversary, if not we will find something else to do. I may show Google provided selections on the Internet. I like the quiet images of Art, changing every two minutes on my TV. NASA images can work as an alternative to the well-known TV programs.

Printing from my BLÜ phone still works. I use my HP email address from my HP Wi-Fi enabled printer. Will printing from Chapman University work? No, because printer and phone need to be on the same Wi-Fi network, as it should!

The latest news about my BLÜ phone is that I am getting messages saying that AT&T is not going to support 2G network after 12/31/16, but I can get a new free phone at an AT&T store. Sceptic as I am I decided to try to see if they will stick me with extra charges. They made me wait 30-40 minutes but after I gave my AT&T phone number and photo ID, a customer support person gave me a new ZTE phone. I asked are my monthly charges stay the same, he said “yes.” He did not even test if it worked! In the parking lot, I tried it, no problem. I enjoyed the thrill of a new smartphone, especially Android 6.0.1, 4G LTE, MHL, and that I can use the 64GB SD card from the phone I lost to water damage. There are negatives too, but we will talk about that at the SIG meeting.

At the time of this writing Google’s new phones and other stuff are only rumors. October 4 is the date of Google’s new announcements. I expect discussing Android 7.0 by name and make a rare recommendation about a new phone deal at the next SIG meeting.

The MC SIG meets in Science 109 at 10:30 am

Computer Talk and Advanced PC Q&A

By Jim Sanders, PC Q&A SIG Leader

NO MO ROBO, NO MO ROBO, NO MO ROBO, NO MO ROBO, NO MO ROBO, as in www.nomorobo.com! If you are anything like me, you have been annoyed by SPAM telephone sales calls of one kind or another.



You cheered when the Federal government announced the Do-Not-Call list. You realized that it would take some time for it to take effect. After a few years, it did seem like spam calls from large organizations had diminished. Then you learned that there were loopholes in the law. If an organization could claim some kind of business relationship with you or your telephone number, they were not restricted from calling you. You may have learned that when they did call you, that if you informed them that you were on the Do-Not-Call list and requested that they place your number on their Do-Not-Call list, that they would not call you again. RIIIIIGHT!!!!

And then there was the loophole for charitable organizations. Your local Police Benevolent Society, Cancer Fund, Food Bank for the poor, etc., could still call you, and MAYBE that is OK. But over time, you learned that you would still get calls from Joe's Carpet Cleaning Service and its ilk. You learned that it didn't matter if you reminded Joe's Carpet Cleaning Service that you are on the Do-Not-Call list. That it did no good to request that they put you on their do not call list. Because Joe and his ilk have learned that the Do-Not-Call list effectively has no teeth or at least are only used on big juicy morsels I think so. Personally, I am not impressed by the FTC'S proud proclamation that since the introduction of the law in 2003, 105 organization's have been prosecuted for violating the Do-Not-Call list. SEE: <https://www.ftc.gov/news-events/media-resources/do-not-call-registry/enforcement>. So several times a day my home phone would ring and seldom was I right next to the phone. That forced me to make a decision, do I interrupt whatever I am doing and try and answer the phone or let the answering machine screen the call. If I am expecting a call from someone, I try and answer the phone even if it is awkward

(I still haven't installed an extension line in the smallest room in the house).

So, Pre-nomorobo, when I was expecting a call, I would still try and answer it before the answering machine kicked in. All too often when I got to the phone the caller ID would indicate that it was not who I was expecting but rather another spam call. Then I discovered NoMoRobo. It is not perfect, and it doesn't work on every phone line. In fact it states that it only works for FREE on VoIP land lines and not for every provider. For money, you can get protection for your cell phone. It claims that it stops some spam calls before your phone ever rings, and most spam calls on no more than one ring. So several times a day now, when my phone rings once and stops, it brings a smile to my face. Just about every time, it invokes the thought "Expletive deleted and the horse you rode in on SPAM caller."

Not exactly my usual SIG report, but I am so pleased with the way www.nomorobo.com works that I want to make as many people aware of it as possible.

There is often too few questions to consume the SIG's timeslot. So I fill the time with presentations on assorted things that I have found interesting in the last month or so. I am thinking about shifting and focusing the presentation emphasis to the Raspberry Pi computers and old CPM computers. Your thoughts and suggestions are solicited and appreciated.

This SIG meets in the Irvine Auditorium at 10:30 a.m. and 12:00 p.m.

Advanced Digital Photography SIG

By Larry Klees Digital Photography SIG Leader

The October meeting will be random access.

This SIG meets in Science 131A at 9:00 a.m. and 10:30 a.m.

More Club Business

September 2016 RAFFLE

Winners from last raffle

Membership Drawing September 11, 2016	
Blue Tooth Speakers	John Szary
32 GB USB Thumb Drive	Bob Dickson
Retractable USB Charge/Sync Cable	Don Anderson
Roll of Electrical Tape	Martin LaRoque
Key Chain LED Light	Terry Dickson
1 Hr. Microsoft Personal Training	Jim Sanders

General Raffle Drawing September 11, 2016	
Blue Tooth Speakers	John Szary
32GB Micro SDHC Card	John Szary
Adreama hi-Power car USB Charger	Bob Dickson
Retractable USB Charge/Sync Cable	Terry Dickson
2 Hrs. Microsoft Personal Training	Jim Sanders
Roll of Electrical Tape	Gerry Resch

Winners with their respective winnings photos Larry Klees





Facebook Announcement

Computer Club NOCCC
Just now · 🌐

Larry Klees a veteran main meeting presenter and SIG leader will do a presentation about Digital Photography Sunday October 16, 2016 at 1:00 p.m. in the Irvine Auditorium.

He has not yet disclosed his topic but guaranteed it will be worthwhile attending. Larry hasn't disappointed anyone in the past so it is recommended, if you have the time, to be there and see what he is up to. Regular Special Interests Group will meet as usual from 9 a.m. to 1 p.m.

Boost Post

Like Comment Share

Facebook posted by Ben Lochtenbergh

October 2016 RAFFLE

Prizes for next raffle

Raffle prizes for the next drawing missed the editor's deadline. I hope that Jim's monthly email will provide that info.

Consignment Table

Consignment Leader Richard Miller

The NOCCC Consignment Table may be available in the lobby of Irvine Hall during the October 16, 2016 meeting.

The regulations are:

1. Only current members can place items for sale.
2. Non-members can purchase items.
3. The consignment table operates on a 90/10% basis - with the owner getting 90%, and the Club treasury 10%.
4. Fill out a Consignment Table User List and item tags for each item placed on the table for sale. The list is available on the NOCCC website.
5. Each tag must contain the seller's name, NOCCC membership number, an item name, description, and an asking price.
6. All items and money must be picked up no later than 1p.m. on the day of sale.
7. Any items and money not picked up will become the property of NOCCC and will be subject to disposal at the Club's discretion. The club has no storage room available for unsold items.
8. NOCCC is NOT RESPONSIBLE in any way for items bought or sold at the Consignment Table. Each item is sold on an AS-IS BASIS.
9. The consignment table and eWaste truck may or may not attended this October's meetings.



Production

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Application

Membership renewal, update, or application form

MEMBERSHIP APPLICATION [] MEMBERSHIP RENEWAL [] ADDRESS UPDATE []

EMAIL UPDATE [] PHONE UPDATE [] OTHER [] _____

Date: _____ My Membership Number Is: _____

Please Print!

Name: _____

Address: _____

City: _____

State: _____ ZIP: _____ - _____

Home Phone (_____) _____ - _____ Mobile Phone (_____) _____ - _____

Email: _____

Fee schedule is on the back cover of the Orange Bytes Newsletter. \$35 Individual Membership.
Membership fees are 100% tax deductible when paid to North Orange County Computer Club.
Amount enclosed \$ _____ Note: Currently we do not accept credit cards.

Please make checks payable to **NOCCC**

Mail to North Orange County Computer Club, PO Box 5841 Fullerton, CA 92838-0841
On Sundays hand completed form, with check if payment, to the Treasurer or a Board member.

Version 20151210

North Orange County Computer Club
PO BOX 5841
Fullerton, CA 92838-0841

To All Members: Observe the line above your mailing address. It can show your DUE DATE or when past due "SORRY OVERDUE last US mail issue for:"

Dated Material – Please deliver by October 15, 2016

Fee Schedule for NOCCC

The fee schedule has been set up to increase club membership, attract people with an interest in computing and attract local computer-related businesses to place ads in the Orange Bytes with or without becoming NOCCC members.

We are also offering members the opportunity to help our club financially by making donations that should be income-tax deductible since we are chartered as a non-profit 501(c)(3) organization. Donors will be acknowledged in the Orange Bytes and the Membership level will be shown on the Member's Badge. **Your regular dues are tax deductible!**

<u>Membership Level (\$)</u>	<u>1 Year</u>	<u>3 Years</u>
Individual Member	35	90
Each Additional Family Member	15	40
Full-Time* Enrolled College Student.....	20	
Enrolled High School Student.....	15	
*Minimum 12 Semester Hours		
Business Member + Ad (Business Card).....	180	
Business Member + Ad (¼ Page, ½ Page)....	465, 800	
Business Member + Ad (Full Page)	1,475	
Contributing Member	75	
Supporting Member.....	100	
Advocate Member	250	
Patron Member	500	

Directions to the NOCCC meetings



Directions to NOCCC from John Wayne-Orange County Airport (SNA) about 12 miles

Enter CA-55 N (Costa Mesa Freeway crossing Interstate 5) toward Anaheim/Riverside for 9 miles.

Exit toward E Chapman Ave. Turn right onto N Tustin St. Turn left onto E Walnut Ave.

1) Turn left onto N Center St. On the right is the Hashinger Science Center, 346 N Center St. Orange California. Parking on the University side is free. Parking on the residential side may cost you!

2) Turn left for the best place to park. For a small fee park underground in Lastinger Structure under the sports field. Ask members or help@noccc.us about parking options, restrictions, and prices!