

range





Volume 43 No 1 January 2019 \$1.25

NOCCC Meetings for Sunday January 6, 2019

The consignment table will be open from 10 am to 1 pm

Main Meeting 1:00 PM Jim Sanders will demonstrate new developments in Microsoft Windows 10

Special Interest Groups (SIGs) & Main Meeting Schedule

9:00 AM – 10:30 AM		
Beginners Digital Photography Science 129 Questions and Answers about Digital Photography		
Linux for Desktop UsersScience 131 Beginners' Questions about Linux		
10:00 AM – 10:30 AM		
Elementary Programming SIG Science 109		
We will look at and run computer code		
10:30 AM – 12:00 PM Noon		
3D Printing		
Advanced Digital PhotographyScience 129 Questions and Answers about Digital Photography		
Linux Administration		
Mobile Computing		

12:00 PM Noon – 1:00 PM			
3D Printing	Hashinger Auditorium		
Questions and Answers about our new printer			
PIG SIG	Hashinger Courtyard		
Bring your lunch. Consume it in the ope	en-air benches in		
front of the Irvine Hall. Talk about you	ur computer and		
life experiences.	2000		

1:00 PM - 3:00 PM Main Meeting

..... Hashinger Auditorium

Jim Sanders will demonstrate new features of Microsoft Windows 10

3:00 PM - 4:00 PM

Board Meeting......Science 129

Verify your membership information by checking your address label on the last page

VBA and Microsoft Access/Excel...... Science 127Using VBA code to enhance the capabilities of Access and

Excel

Mark your calendars for these meeting dates 2019: Feb3 Mar3 Apr7 May5

Coffee, cookies and donuts are available during the day in the Irvine Hall lobby. Foods and drinks need to remain outside the Hashinger Auditorium.

"Friends Helping Friends" since April 1976

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Special Club email addresses editor@noccc.org membership@noccc.org

Board of Directors

Contact information and email forwarding addresses

President Ben Lochtenbergh

president@noccc.org (cell 1949.331.3917)

Vice President Robert Strain

vicepresident@noccc.org (cell 714.222.2140)

Secretary Bob Dickson

secretary@noccc.org (home 714.539.1304)

Treasurer Dr. Don Armstrong treasurer@noccc.org (home 714.773.1187)

Webmaster Jim Sanders webmaster@noccc.org (home 714.544.3589)

Director Terry Dickson terry@noccc.org (home 714.899.9913)

Director Larry Klees

larry@noccc.org (cell 714.394.1870)

Director Dennis Martin

dennis@noccc.org (home 951.926.3065)

Director Richard Miller

richard@noccc.org (cell 714.309.1504)

Director Gerry Resch

gerry@noccc.org (home 714.772.6667)

Use these email addresses for club communications

Club Business

The President's Report

President's report by Ben Lochtenbergh



Wishing you a Happy New Year.

Looking back at 2018 it was a successful year for me and many others in buying computer parts made in China. The stock market dive, at the time of this writing, may put a damper on our spending activities in 2019.

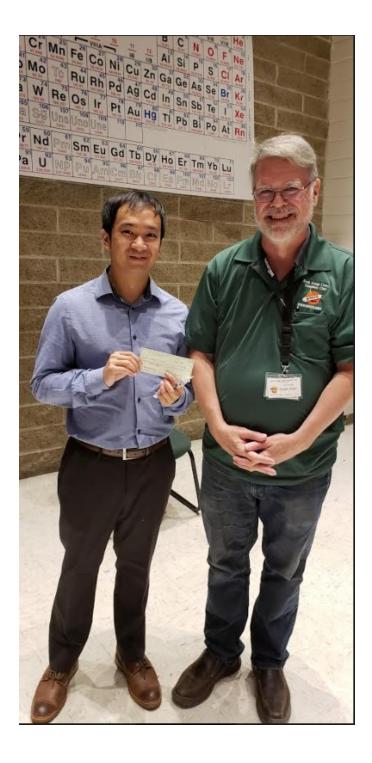
The club is doing well considering natural attrition. I guess if we could draw lines of member's life expectancies, like insurance companies do, and do the same with life expectancy of NOCCC, we can predict similar results.

The point is if we do not get young members, our club will naturally die, as other computer clubs did.

I am happy to report that the November meetings went well with Robert Strain in command and the handing over of the scholarship awards.

Considering all that, our club is strong.





president@noccc.org

Board Meeting Minutes for November 2018

Secretary's report by Bob Dickson



The meeting was held in room 129 of the Chapman University Science Hall. The meeting was called to order by Vice President Robert Strain at 3:05 PM. Present were: Robert Strain, Bob Dickson, Don Armstrong, Terry Dickson, Dennis Martin, Jim Sanders, Larry Klees, Gerry Resch, and Richard Miller. Absent was Ben Lochtenbergh.

Secretary's report: Bob distributed copies of the minutes for the 10/07/2018 meeting. Gerry moved to accept the minutes, Dennis 2nd, approved.

Vice President's report: Robert informed the meeting that Ben was out of town as Ben reported at the October meeting that he would not be attending the November meeting due to a trip that had been planned. Robert thanked the members for attending. Robert asked the members to accept any differences he might make in leading the meeting as this was his first attempt to do so. All agreed they would follow his lead.

Treasurer's report: Don reported he received \$40.00 from the raffle, no cost reported. He received \$24.50 for the donuts & cookies; the cost was \$23.86. The consignment table turned in \$40.00. He received a \$50.00 check for a couple's dues (member: \$35.00, spouse: \$15.00). He received dues for 2 other members, one \$35.00 in cash and one \$35.00 check. He paid for the September Bytes \$73.36. He noted that the P.O. Box, the club's domain name payment, and Hartford Insurance have all been paid. In response to a question from Terry, Don noted that the university has been completely informed and is up to date on all of its club requirements.

Don is still working on making some changes and fixing some items that Ben had requested in prior months on membership details but he has not completed all of those items.

Gerry moved to accept the treasurer's report, Richard 2^{nd} , approved.

Club Shirts report: Terry reported he placed a shirt on a hanger in the main hall and moved It to the front of the main meeting. There were no sales of club shirts at this meeting. The shirts were returned to the cabinet at the end of the meeting.

Book Display report: Don asked if anyone knows who's in charge of the cabinets. No one knows who at the university is in charge of them. Don said he called the university but could not get an answer from anyone yet. Don noted that he wants to use the hall cabinets that are opposite the storage room door holding the club's other materials. He'll continue to try to find who at the university is in charge of those hall cabinets.

Bob and Robert commented that last month Ben had cleared out the display cabinet in the main hall near the current cabinets being used to display the club's historical computer equipment. Bob and Robert both stated that they felt that cabinet would be both too small to hold very many books and that more important it is hard to raise the display cabinet lid to gain access to the area where the books would be displayed. They both agreed with Don that the hallway cabinet would be a better location to display the books. The main problem Don has is to find out who controls the hall cabinets and who has the keys and are they even available to the club to

use. He'll work on finding some answers before the next meeting.

Don noted that he has not completed remaking and updating the list of books that he displayed last month. He's working on it.

E-Waste report: Another e-waste company has not been found yet. Gerry commented that we may have to make an arrangement with a company that will require payment to collect the e-waste as the market has changed. He does not have any contact with an e-waste company.

Consignment Table report: The consignment table will be set out every month we have a meeting. Bob set out the table and assisted Richard with displaying the items from the storage area. Richard reported that a member filled a box with many small items that had been donated several months ago and paid the club a total of \$40.00. Richard gave the cash to Don.

WEB Site report: No report.

SIG Session counts: Linux 4, 8; Linux 5, 12; Photo, 7; 3-D Printing, 2; Mobile Computing, 0 (Ben not present); Exploratory Computing, 0 (Ben not present); Access, 1; Main Meeting, 18.

Main Meeting report: In the absence of Ben, Robert, VP led the meeting. He introduced the two student speakers. The first student speaker was Evan Walker who made an outstanding presentation on "Binary Classification of Arbitrary Decision Making on Generated EEG using Drift-Diffusing Models". This was using computer equipment to monitor the thought process before actually making the decision to raise either one's left or right hand. This is an ongoing research project that uses computers to monitor functions in one's brain before the person actually logically reveals to himself which hand he will move. The second student speaker was Andy Liang whose subject was using a computer to determine what a person is looking at by monitoring the change in the diameter of the person's eye, a subject known as "Pupillometry". Using this method and algorithms based on the accurate tracking of pupil diameter, humans can spell words covertly without even looking at the letters. Both presentations brought out many questions from persons in the audience. Each student presenter received a scholarship check in the amount of \$750.00.

There was some discussion about there not being a microphone for use by the two student presenters. The university did not have one present. There was some discussion about the club purchasing a microphone to ensure that one is available for the speaker. There was no decision at this meeting.

The December presenter will be Ben Lochtenbergh who is preparing a PowerPoint presentation entitled "Photography on Steroids".

The January presenter will be Jim Sanders who is preparing a presentation on the many new features of Windows 10.

Adjourn: Gerry moved to adjourn the meeting, Larry 2nd, approved. Robert declared the meeting ended at 3:35 PM.

Submitted by: Bob Dickson, Secretary

The board meets in Science 129 3:00 p.m.

Main Meeting and SIG Reports

Main Meeting Report November

Main Meeting report for November by Jim Sanders

The November Main Meeting had the two Chapman University students that received the NOCCC scholarship grants as the presenters at the meeting. They were asked to do a presentation on one of the areas of their curriculum or research project.

The first student presenter was Andy Liang he started his presentation with the following description of his study project.

Pupillometry is the study of changes in the diameter of the pupil as a function of cognitive processing. Normally the pupil has an autonomic

reaction to light; it adjusts its size based on the brightness of the environment. But research has shown that human pupil size is also related to our emotions. For example, if you are attracted to a person, when you see them your pupil tends to dilate. Recent evidence suggests that covert visual attention affects the pupillary light response: your pupil constricts when you covertly (i.e., without looking) attend to a bright (vs. dark) stimulus. Using this method and algorithms based on accurate tracking of pupil diameter, humans can spell words covertly, without even looking at the letters

He showed a video that demonstrated how this HCI (Human Computer Interface) works. The pupillometer, the device that is aimed at the eye and measures the size of the pupil, is connected to a computer. The combination is able to measure, record, and analyze even a minute change in the diameter of the pupil. With the eye staring at a central point, different combinations of letters are flashed in the peripheral vision area of the eye. The letter that is desired to be recognized, is a bright white compared to the other letters. After an average of 41 seconds, the computer decides to which letter the pupil was responding. I missed seeing how "humans can spell words covertly." but maybe that was just me. While I think it is an interesting idiosyncrasy of the pupil that allows this HCI to pick out letters that are being flashed, other than a study subject, I can see no practical use for the ability. If you what to learn more about the subject, check out the following URL:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4743834/

The second student presenter was Evan Walker.

Title: Binary Classification of Arbitrary Decision Making on Generated EEG Data using Drift-Diffusion Models abstract: Binary classification of arbitrary decision making is a central first step to understanding free will. Using a drift-diffusion model to generate EEG data gives more control in the machine learning algorithms implemented

in this presentation, as well as a theoretical foothold on the predictability of arbitrary decision making and ultimately free will. more specifically, a leaky stochastic accumulator model is implemented with several free parameters to control.



How that relates to the content of his presentation is still not clear to me. The content of his presentation talked about analyzing EEG signals from two points on the back of the head.

The electrical signals obtained from those two points was then analyzed by several different mathematical algorithms that created graphical outputs. The electrical nerve signals that the EEG picked up somehow showed that nerve signals that would be generated as a result of consciously deciding to raise your arm were detectable 2.5 seconds before the actual arm movement. This conclusion was arrived at after processing ten thousand EEG signals. Actually, I should say ten thousand artificially generated EEG signals created by a MATLAB model. Evan explained that the EEG signal generated by MATLAB model was a very close approximation of what actually happens in the human body. That trying to get ten thousand samples of a real human being deciding to raise an arm would just take too long.

While the study undoubtedly gives Evan a good grounding in using math algorithms to analyze electrical signals, maintaining that the MATLAB generated signals represent real life, is hard to wrap my head around. The other fly in that ointment is the near autonomous arm movements that occur when one tries to catch something that has been dropped. That arm movement occurs in a fraction of a second. While it may be true that the casual mental decision to raise your arm may be detectable 2.5 seconds before the actual movement (particularly if the signal was recorded from a real human being), I am still not sure why that is important. Still, an interesting study.

Main Meeting Report December

Main Meeting report for December

Ben Lochtenbergh, our president, presented what is possible with ten years' worth of personal photographs in the cloud. He selected them by location, date and name.

Main Meeting for January

January Main Meeting presentation by Jim Sanders

Jim Sanders has prepared a presentation about new features in Windows 10 for this date.

Main Meeting for February

TBD.

Main Meeting for March

TBD.

Mobile Computing SIG Report

Mobile Computing report by Ben Lochtenbergh



We will start the year with something that has been missing for too long, the ability to show the phone screen enlarged on the canvas in front of the classroom. I received invaluable tech support from the University in Science 109 during a weekday

and now mirroring works!

I have written about how a Nexus Google phone is unable to use HDMI or VGA to display its screen. We will see it work via Chromecast in the upcoming SIG meeting...

I may demonstrate the Ring Doorbell installed at my house, a **Cyber Monday** special from BestBuy via Google Express! I can show ordering, pricing, installing, and short door activity videos. I shall attempt to evaluate this new technology.

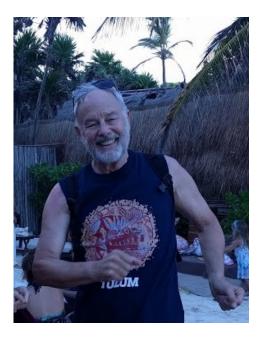
I may also demonstrate my voice enabled sprinkling system, investigating a possible valve problem and looking at the watering history going back all the way to April 2018!

I hope to see you start the New Year by visiting Room 109 between 10 am and 12:00 noon or continue visiting SIGs as you did before.

This SIG meets in Science 109 from 10:30 a.m. to 12:00 p.m.

Programming SIG Report

Programming SIG in memory of Rudy Lauterbach by Ben Lochtenbergh



Now we are going to see programming the right way without a single Go To!

It requires learning computer commands that developed after programmers learned to code better.

The difference is it is not instinctive like what I did when I started programming, without the possibility of taking a programming class. I wrote computer code as I would write a recipe for making pancakes.

I thought this might be another way for someone who fears programming as it is taught today to learn it another way.

However, due to lack of interest, this shall be the last crack at this programming SIG.

This SIG will meet in Science 109 from 10:00 a.m. to 10:30 p.m.

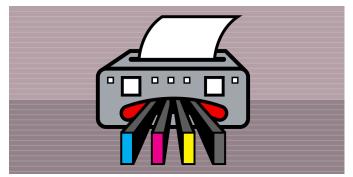
Special Interest Article (retold)

Article submitted by Dennis Martin

Supreme Court Victory for the Right to Tinker in Printer Cartridge Case

News Update by Kit Walsh May 30, 2017

The Supreme Court struck a blow today for your right to own the things you buy, reversing a lower court decision that had given patent owners the power to sue customers who paid in full for a patented item but then used it in a way the patent owner didn't care for. The Court's reasoning will help us protect your rights from overbroad copyright and other restrictions, like the ones written into "end user license agreements" for software or imposed by technological restrictions given legal teeth by Section 1201 of the DMCA.



Lexmark tried every legal trick in the book to keep you from refilling your own printer cartridges, and had finally found a sympathetic ear at the Federal Circuit, the Federal Court of Appeals with jurisdiction over patent law. The Federal Circuit agreed with Lexmark that a patent owner could write their own rules that customers would have to follow or face liability for patent infringement. Even someone who later acquired a product, like the companies that refill printer cartridges, would have to abide by these restrictions.

Together with <u>Public Knowledge</u> and <u>R</u> <u>Street</u>, **EFF** filed an amicus brief at the Supreme Court. We explained that the ability of patent owners to sell products into the stream of commerce while also writing a wish list of anti-competitive restrictions, would be a disastrous expansion of patent law, hindering competition, innovation, and your freedom to tinker with and repair your own stuff.

The Supreme Court agreed, explaining that when a patent owner "chooses to sell an item, that product is no longer within the limits of the monopoly and instead becomes the private individual property of the purchaser, with the rights and benefits that come along with ownership." The Court emphasized that, by default, *people have every right to make*, *sell, and use things*. The limited monopoly that the government bestows upon a patent owner is a deviation from the norm of free market competition and ownership of personal property, and is subject to important limits in order to protect the public interest.

The Court also rejected the argument, raised perennially by rightsholders, that they are entitled to profit via the business model of their choosing, even if that business model requires an expansive reading of the patent or copyright monopoly they enjoy. This argument arises in many contexts. For example, we've seen video game console makers argue that your traditional rights to modify your gaming console must be restricted to enable the loss-leader business model of selling inexpensive consoles and pricey games. Makers of Internet-of-Things devices often require a subscription to function. And manufacturers often try to place restrictions on reselling digital goods, repair markets, and other uses that the law has traditionally allowed customers to engage in. A rightsholder may be able to make more money if you have to pay to exercise your existing rights, but ownership of a patent or copyright should not be a hunting license that allows an owner to control and destroy any business that threatens their profits. Today, the Supreme Court reaffirmed that a patent does not confer unfettered control of consumer goods to the patent owner.

We have long fought for your right to own, understand, and control the devices in your life, and patent restrictions have been just one threat to those rights. Today's decision will help on other fronts, as we push back against abusive terms of use and "end user license agreements" that purport to strip you of your rights on pain of copyright infringement. The Court explained that people who buy things are allowed to use and resell them without being sued under patent and copyright law, and explained that this freedom is necessary for commerce to function. The next logical step will be for courts to recognize that people who buy digital goods are owners of those goods, not mere licensees, and can resell and tinker with their digital goods to the same extent as purchasers of tangible property.

The reasoning in the Court's decision also demonstrates why Section 1201 of the DMCA has become dangerously overbroad. The Chief Justice used the auto industry as an example of a market that would be hindered if manufacturers retained a legal right to control the repair and resale of the devices they sold. This argument won't be a surprise to anyone who followed the latest rulemaking process, in which we convinced

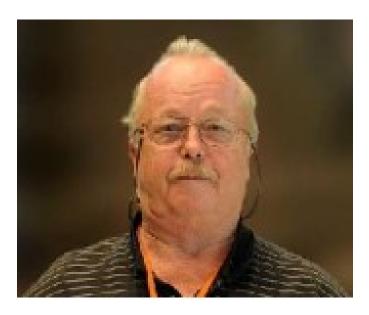
regulators to (at least temporarily) relieve some of Section 1201's <u>restrictions on auto</u> <u>repair</u>.

Overall, the decision reinforces the freedoms of device owners and fends off the monopolistic threat of patent rights eliminating fair, essential competition in markets for repair and third-party innovation. We applaud the Supreme Court for striking this blow on behalf of the public, and look forward to seeing the ripples of the decision in the years to come.

More Club Business

Consignment Table

Consignment Leader Richard Miller



The NOCCC Consignment Table will be available monthly in the lobby of Irvine Hall between 10 a.m. and 1 p.m.

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. An E-Waste truck is **not** scheduled for December.

Production

These Orange Bytes created with Windows 10 and Microsoft Word 2013® using the True Type fonts Times New Roman and Arial. Printed by: Creative Technology, 5959 Palmer Blvd. Sarasota, FL 34232—2841 800-533-1031



December 2, 2018 RAFFLE

Raffle report by Dennis Martin. Raffle Master Robert Strain. Financial support by Dr. Don Armstrong

Membership Drawing

#1	18 in. Magnetic	Richard
	Holder	Miller
#2	25 ft. Tape	Bob Dick-
	Measure	son
#3	Sport Wireless	Terry
	Hand Set	Dickson
#4	Digital DVD	Martin La
	Player	Roque
#5	Club Pen	Bruce
		Jones

General Drawing

General Brawing				
#1	Wireless Blue	Bill		
	Tooth Head	Thomas		
	Phones			
#2	Digital LCD	Bill		
	Power Supply	Thomas		
	Tester			
#3	SSD Hard	Martin La		
	Drive 2.5 Sata	Roque		
	6 GB			
#4	Magnetic	Don Arm-		
	Holder	strong		
#5	Club Pen	Bill		
		Thomas		

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

To All Members:

The line above your mailing address now shows your join date.

Please use your join **month** to choose when to renew your membership.

Dated Material - Please deliver before January 6, 2019

Membership Level (\$)	1 Year 3 Years
Individual Member	90
Each Additional Family Member	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 (1/4 Page, 1/2 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 meeting location



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

Enter CA-55 N (Costa Mesa Freeway) crossing Interstate 5 toward Anaheim/Riverside for 9 miles. *Notice freeway and street signs stating "Chapman University."* Exit toward E Chapman Ave. Turn right onto N Tustin St. Turn left onto E Walnut Ave.

1) Turn left past N. Center St. for the **best place to park** in the underground parking structure (Lastinger under the sports field). Pay the small fee (\$2) to park Ask members or help@noccc.org about parking details, restrictions, and our price break!

2) 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 is a city violation that may cost you a tow away and a ticket!