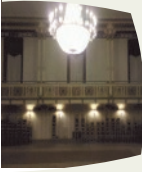




► PRESIDENT'S MESSAGE BY
BRADLEY BASSANO..... 2



► STATLER TOWER TOUR
REVIEW..... 3



► STUDENT INFO
ENGINEERING: ONLINE TOOL
FOR ENGINEERING STUDENTS
..... 18

○ ISSUE 5 | ○ VOLUME 84 | ○ JANUARY 2012

WNY *engineer*

HELPING MAKE ESB **YOUR** SOCIETY

TECHNICAL ARTICLE

Prince Rubber & Plastics

Beginning in 1931 Prince Rubber & Plastics Co., Inc. has expanded over the years in the field of mechanical and corrosion resistant plastic and rubber products to the point where manufacturing operations now exist in Buffalo, NY., Baton Rouge, LA. and Fort Erie, Canada. The move to highly specialize in the field of mechanical and corrosion resistant rubber and plastics sold to a wide variety of chemical processes and original equipment manufacturers has proven to be both highly beneficial to the consumer in the form of "high performance parts" and thusly success to the "Prince" group of operations. In addition to custom and specialty products in plastic and elastomeric materials, Prince further finds itself expanding its own line of specialty developed accessories for utilization in Chlor-Alkali production.

Chlor-Alkali refers to two chemicals (chlorine and an alkali) which are simultaneously produced as a result of the electrolysis of salt water brine. The most common chlor-alkali chemicals are chlorine and sodium hydroxide (caustic soda) but can include potassium hydroxide and muriatic acid. There are three commercial types of electrolytic processes used in the production of chlorine and caustic soda: the diaphragm cell process, the mercury cell process, and the membrane cell process. The process chemicals found in chlor-alkali and chlorate plants require unique materials of construction to provide corrosion resistance to these aggressive environments which typically operate in the temperature range of 80-100°C.

More recently Prince has begun developing products to extend the service life of the chlorine producing cell parts. One product development area is extension of chemical

resistance of gaskets and other desirable parts. Prince has been developing gaskets that include a bonded PTFE fluoropolymer protective liner. PTFE is a chemically inert fluoropolymer plastic and will increase part life by placing a thin film bonded to a rubber gasket along the area that is most exposed to chemical attack. It takes years of research and technique to develop this type of product. PTFE has a low coefficient of Friction, generally in the range of 0.05 to 0.20 depending on the load, thus making it difficult to bond a solid substance to it.

(Examples of PTFE Bonded EPDM Gaskets)



This development has introduced Prince to a new world of product lines and applications on a constant basis. Developments like this has promoted the addition of a 3700sqft manufacturing area to the Prince Buffalo facility and installation of new CNC equipment, rubber molding presses and rubber processing equipment.

Warren Prince has been an ESB member for over 50 years. Other Prince employees in the ESB are Victor Monter (joined 2004) and Thomas Hanshar (joined 2008).

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PRESIDENT'S MESSAGE

Happy New Year 2012!!

I would like to wish each of you and your families all the best this coming year! For all those who attend the O.F. Holiday luncheon, I hope you had a good time along with a good meal. Also, I hope everyone had a great Christmas and that Santa was good to all.

With the start of the New Year most of us make "New Year's Resolutions" that will improve our life in some way. We plan to lose weight, go to the gym more, spend less, save more, and the list goes on. I hope one resolution everyone makes and can follow through on this year is to get more involved in your Engineering Society. We always need people to help out at our events such as, P.E. review course, Engineer's Week table at the Walden Galleria mall, our Adopt-A-Highway outing, our annual Golf tournament, and the 5K runners race. Don't be shy! All these events are a great way to

meet other members and network other engineers.

Another way each of you can help your society is by referring at least one new member! As engineers, we all know other engineers, so talk up the society and get someone to join!

Some of our upcoming events and activities are the P.E. review course which starts this month. So encourage other engineers to take the course and enhance their careers. We will be having a raffle for a Kindle Fire! The Kindle Fire is a great tablet PC. Also, we will be having a table at the Annual Engineer's Week event that takes place in the Walden Galleria February 25, 2012.

So as we move into the New Year let's make our society better and stronger by becoming more involved! You'll be surprised at how good it feels!

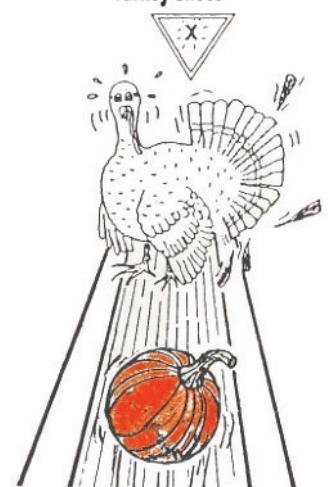


BOWLING LEAGUE TURKEY SHOOT

November 16, 2011
12 Game Eligibility

1.	Eric Murphy	287	9.	Rich Deck	244
2.	Chris Gabrielli	273	10.	Paul Morrow	244
3.	Todd Broady	269	11.	Merrill Arthur	243
4.	Ed Grembowicz	263	12.	Don Metz	242
5.	Greg Hart	254	13.	Ed Kilgore	241
6.	Todd Huth	253	14.	Ron Fisher	240
7.	Norm Hirschey	251	15.	Walt Neuhaus	239
8.	Tom Hodiak	250	16.	Bert Metz	239

Turkey Shoot



CALENDAR OF EVENTS

01-01-12		Happy New Year	
01-02-12		ESB Office Closed	
01-09-12	6pm	ESB Ways & Means and Board Meeting	Alice's Kitchen
01-11-12	Noon	OF Luncheon	Alice's Kitchen
02-06-12	6pm	ESB Ways & Means and Board Meeting	TBD
02-08-12	Noon	OF Luncheon	Alice's Kitchen

TOUR REVIEW

On November 17th, the ESB toured the Statler building in downtown Buffalo. This tour was arranged by Pat Conway at a strategic time, as the early stages of redevelopment of this historic building proceeds. Twelve members and guests participated.

Our tour leader, Pat's friend Conor Hawkins, met us in the lobby to start the tour. Conor is the manager of Downtown Pub Concepts and manages a number of bar/restaurants for Statler owner Mark Croce including Darcy McGee's, Buckin Buffalo and Sky Bar along with Statler banquet/bar operations. The tour started out on an unexpected good note, as a local radio station was broadcasting live from the Statler, and everyone had a chance to enjoy some complimentary food and drink.

The tour commenced in the basement and lasted for just over an hour. We walked through mechanical and furnace rooms which took us back nearly a century (the Statler was built in the 1920's). Old furnaces and other equipment were visible but not functioning. An entire room was devoted to tools and spare parts. Despite the age and dust, it appeared that everything was stored in an orderly manner, although you had to wonder how long it was since anyone used any of this.

We proceeded up to the banquet and meeting rooms. The Terrace Room is fully functional and is hosting wedding receptions/banquets. The Golden Ballroom is near completion with only floor refurbishment to be made. The Rendezvous Room is a nightclub that opened on Thanksgiving Eve. The Lobby Bar is also up and running. In particular, Conor showed us a beautiful old bar with ornate wood work and special coolers, arranged in a sweeping S shape. This will be The

Downtowner. Despite the challenges of this project, things move fast once they are started. Connor said that as each room/feature is completed, it may be opened up for business independent from the progress on the building as a whole. Other rooms on the mezzanine level we toured included the Georgian Ballroom, Chinese Room and Grover Cleveland Library, all currently under renovation.

Our tour then proceeded up a working elevator to the top of the building. The building's main passenger elevators were restored previously by Bashar Issa, the British developer who was forced into bankruptcy in 2009. After we looked out the windows on the 18th floor, with a spectacular view of the surrounding buildings, we walked up to above the elevators and near large water tanks that supplied the building with water. To complete our tour, coming as a complete surprise to everyone, Conor led us onto the roof to get a glimpse of downtown Buffalo from a very special perspective. It was a beautiful starry night.

No firm plans have been made for the upper floors, the current owner is waiting to see how the markets develop. Robert Knoer, a local attorney and ESB member, represented Statler City LLC in its negotiations with the City of Buffalo.

We felt very special getting this opportunity! Pat would like to schedule a return visit to the Statler in the future when the project is complete (or nearly so). If you missed this fantastic tour, you will have another opportunity in the future to get an inside look at a very special renovation project right here in Buffalo.



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UPCOMING BIRTHDAYS

January 4 Rebecca Wightman & Laura Ziegler
 January 5 John Beishline
 January 6 James Carr
 January 10 Erin Crawford
 January 14 Richard Van Slooten
 January 17 Gary Shoffstall
 January 18 Theodore Stachowiak
 January 25 Robert Mathisen
 January 27 John Earshen

January 28 John Battaglia & Stephen Gawlik



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Spend \$8 million or \$20?

A toothpaste factory had a problem. Sometimes they shipped empty boxes, without the tube inside. This was due to the way the production line was set up. People with experience in designing production lines will tell you how difficult it is to have everything happen, with timings so precise, that every single unit coming out of it is perfect 100% of the time. Small variations in the environment (which can't be controlled in a cost-effective manner) mean you must have quality assurance checks smartly distributed across the line so that customers all the way down to the supermarket don't get upset and buy another product instead.

Understanding how important that was, the CEO of the toothpaste factory got the top people in the company together

"The project followed the usual process; budget and project sponsor allocated, RFP, third parties selected, and six months (and \$8 million) later they had a fantastic solution"

and they decided to start a new project. They would hire an external engineering company to solve their empty boxes problem, as their engineering department was already too stretched. The project followed the usual process: budget and project sponsor allocated, RFP, third-parties selected, and six months (and \$8 million) later they had a fantastic solution — on time, on budget, high quality and everyone in the project was on board with it. They solved the problem by using high-tech precision scales that would sound a bell and flash lights whenever a toothpaste box would weigh less than it should. The line would stop, someone would have to walk over and

yank the defective box out of the line and then press another button to restart the line.

A while later, the CEO decides to have a look at the ROI of the project: amazing results! No empty boxes ever shipped out of the factory after the scales were put in place. There were very few customer complaints and they were gaining market share. "That's some money well spent!" he says, before looking closely at the other statistics in the report. It turns out; the number of defects picked up by the scales was zero after three weeks of production use. It should've been picking up at least a dozen a day, so maybe there was something wrong with the report. He filed a bug against it and after some investigation, the engineers came back saying the report was actually correct. The scales really weren't picking up any defects, because all boxes that got to that point in the conveyor belt were good.

Puzzled, the CEO travels down to the factory and walks up to the part of the line where the precision scales were installed. A few feet before the scales, there was a \$20 desk fan blowing the empty boxes out of the belt and into a bin. "Oh, that," says one of the workers "one of the guys put it there because he was tired of walking over every time the bell rang".



2012 ENGINEER'S WEEK MALL DAY

Engineer's Week is almost upon us. This upcoming year it will be held February 19-25, 2012.

We will again be hosting a table for the Mall Day event on February 25th.

We need volunteers to be at the Galleria Mall to represent ESB. We need at least 6 people. 2 people each on a 2 hour shift from 9-3. Please call Kim in the office to sign up.

This year MaryEileen Wood is coming in from Syracuse to set up an interactive display on behalf of the Dr. Nelson Ying Tri Region Science and Engineering Fair.



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The Engineering Society of Buffalo will be hosting its
2012 Annual Golf Tournament to be held: June 11, 2012

Lunch: Starting at 10:45 AM Tee Time: Noon

Tan Tara Golf Club, 4391 Tonawanda Creek Road North, North Tonawanda, NY 14120

We appreciate your support. Your sponsorship will help us to provide programming
while promoting your business. Sponsorship deadline is June 1, 2012.

There are four levels of sponsorships to choose from:

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We are also in need of items for our giveaway table. These items can be corporate promo
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Check One: ☐ Titanium ☐ Platinum ☐ Gold ☐ Silver

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Submit your personal or company biography or even a detailed, cool recent project you have worked on...along with a picture where possible...and you might just see it show up in a future issue of WNY Engineer. All submissions become the property of ESB and may be edited due to space constraints etc.

Send your article to Robin Closs at robin@rjrpc.com and the Board will decide on the fate of your article. Hey, we'd accept technical articles for the front cover too. Your writing could be on the front cover of a publication. How cool is that!?

Look mom, it's me!

Dick Weimer



Richard F. Weimer, an engineer who helped pioneer the cryogenics field and worked on the first aircraft to break the sound barrier, died Thursday in Mercy Hospital. The Town of Tonawanda resident was 81.

Born in Buffalo, Mr. Weimer graduated from Burgard Vocational High School and the University of Buffalo. He served in the U. S. Air Force during the Korean War and was stationed in England and France. Following his military service, he went to work as a technician at Bell Aircraft during the company's development of the X-1 rocket, the first aircraft to break the sound barrier, in the 1950s.

He later worked for Praxair, then Union Carbide/Linde, as an engineer doing research

during the early stages of the cryogenics field, which involves the study of very low temperatures and their effect on materials. After retiring from Praxair in the early 1990s, he worked as a private consultant with area businesses to ensure environmental and occupational safety compliance until about 2005.

Mr. Weimer was past president of the Engineering Society of Buffalo and a long-standing member of the society's Student Scholarship Committee. He was also a strong supporter of the American Red Cross, donating more than 20 gallons of blood during his lifetime.

He is survived by his wife, the former Jean Decker; two daughters, Karen Dorsheimer and Nancy Hoelzl; two sons, David and Michael; and his ex-wife, Irma Weimer.

Wilson Greatbatch

This was submitted to me last month by Pat Conway. As you noticed, we had a full newsletter.

A couple months back we posted the passing of one of our Honorary Members, Wilson Greatbatch.

Here is a piece of ESB history on Wilson Greatbatch.



BULLETIN

Established 1894

FEATURES: *A note from The President of the United States -page 4*

cost: \$.50

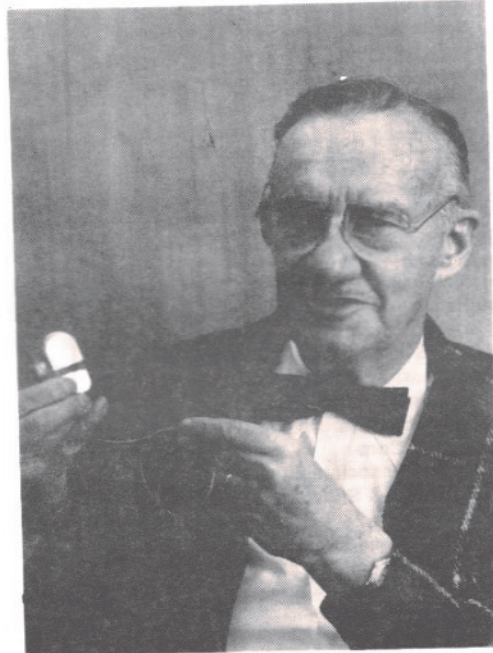
ENGINEERING SOCIETY OF BUFFALO AUGUST/SEPTEMBER 1994

CENTENNIAL CELEBRATION & PAST PRESIDENT'S DINNER

THURSDAY SEPTEMBER 22, 1994
BUFFALO HILTON
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Cocktails: 6 to 7 pm (cash bar) in Atrium
Dinner: 7 to 8:30 pm in Grand Ballroom

Choice of: Sliced Top Round
Chicken Marsala
Filet of Sole



Guest Speaker: Mr. Wilson Greatbatch

(Inventor of the implantable cardiac pacemaker- Speaker Profile on page 2)
TOPIC: "A Century of Firsts in Engineering"

Cost: Free to regular members that have paid their dues by September 15th. The cost is \$20.00 to guests and members that have not paid their dues.

Call the ESB office by September 15th for reservations:

873-4455 (9 am to 1pm)

Directions:

Coming from Peace Bridge, Canada, or northern areas: Take 190 South, exit at the Niagara Street Exit. At the base of the exit, turn right. Travel up Niagara Street approximately 1 mile. At the intersection of South Elmwood and Niagara Street (at City Hall) turn right. Travel South Elmwood approx. 1/4 mile to the entrance of the Buffalo Hilton.

Coming from the Buffalo Airport area: Follow 33 West towards Buffalo/Niagara Falls. Travel approximately nine miles to the Oak Street Exit. Follow Oak Street one 1/4 mile and turn right onto North Division Street (adjacent to Greyhound Bus Station). Follow North Division one 1/2 mile to the entrance of the Buffalo Hilton.

Coming from East, South: Travel on Route 90 East. Take it to Exit 53 (the overhead sign will read: "Downtown Buffalo"). Once you pass through the South Ogden Street toll barrier, you will be traveling 190 North. Travel approximately 4 miles to the Church Street exit which brings you to the front of the Hilton.

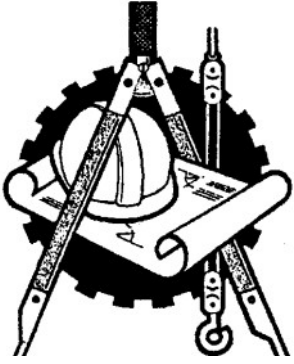
BOWLING WEEK 13 ~ 11/30



<u>TEAM STANDINGS</u>	<u>WON</u>	<u>LOST</u>
1. LIVE WIRE	65	26
2. OUTCASTS	54	37
3. PINHEADS	50	41
4. FINGER HOLES	46	45
5. CAD/CAMS	45	46
6. TRANSMITTERS	43	48
7. SPLIT HAPPENS	43	48
8. GO BILLS	40	51
9. DEAD LOADS	35	56
10. PROTRACTORS	34	57

<u>TOP 10</u>	<u>SCORE</u>
1. PAUL MORROW	216.87
2. BRIAN OLKOWSKI	207.72
3. JOE BURNGASSER	206.27
4. CHRIS GABRIELLI	196.97
5. DENIS FOUNTAIN	196.88
6. ERIC MURPHY	194.83
7. TODD HUTH	187.83
8. JOHN GIRDLESTONE	186.54
9. SCOTT SUTHERLAND	184.97
10. MERRILL ARTHUR	184.48

<u>200 SETS</u>		<u>600 SETS</u>		<u>CROSS ALLEY</u>	
PAUL MORROW	276	PAUL MORROW	762	STEVEN DECK	289
CHRIS GABRIELLI	257	CHRIS GABRIELLI	674		
MERRILL ARTHUR	246	JOE BURNGASSER	643		
BRIAN OLKOWSKI	242	JOHN GIRDLESTONE	623		
TODD HUTH	233	MERRILL ARTHUR	621		
NORM BRODFUEHRER	231	BRIAN OLKOWSKI	620		



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Course fee of \$800.00 includes Civil (or Mechanical) Engineering Reference Manual by Michael Lindeburg, P.E., problem/solution text, 11 lectures and instructors' notes

Times, dates and locations for the mechanical engineering review course to be arranged through the course coordinator

For additional information, call or email:

Civil Engineering Review Course Coordinator - Donald R. McMahon, P.E. – 834-8932,
email: dcmahon@mmce.net

Mechanical Engineering Review Course Coordinator – Richard VanSlooten, Ph.D., P.E. - 652-6925, email:
rav@buffalo.edu

Organized and Coordinated by The Engineering Society of Buffalo, Erie-Niagara Chapter NY State Society of Professional Engineers & UB School of Engineering and Applied Sciences

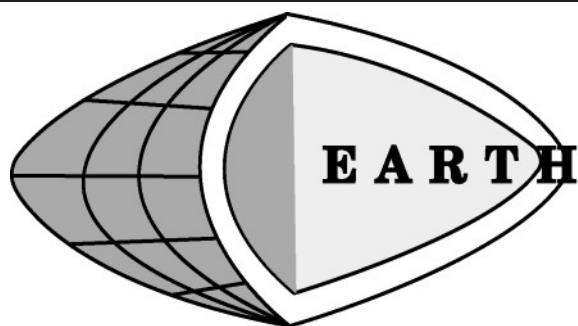


Annual Golf Tournament

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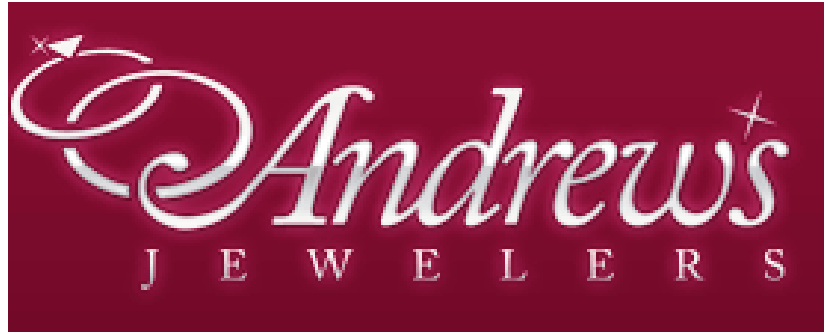
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**Hole in One
Prizes!**



**This year's Golf Tournament will include a chance to win
Hole in One prizes!!**

Andy Moquin from Andrew's Jewelers is sponsoring the Hole in One Prize.

If you get a Hole in One on Hole #1 you will win a prize from Andrew's Jewelers yet TBD (up to \$5000 value)

You will also have the chance to win:

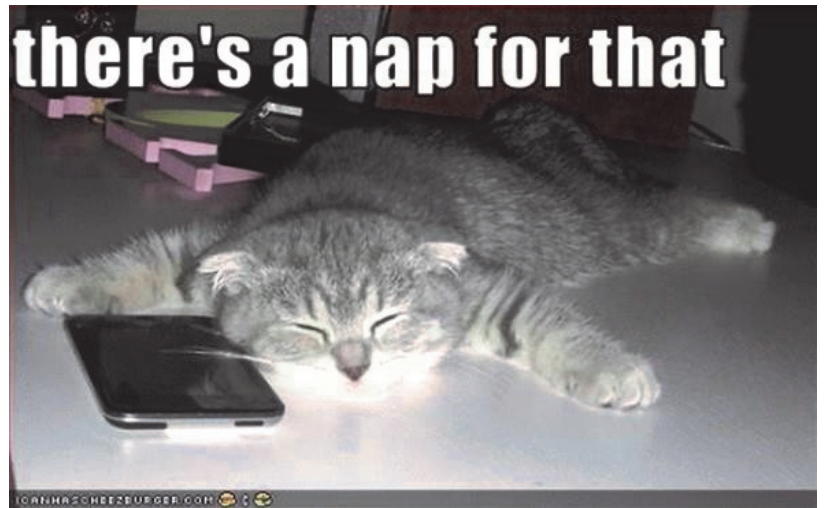
A \$500 Visa Gift Card.

We are also pairing up our tournament with Kenmore Rotary this year.
They will also be sponsoring a Hole in One prize!!

If you buy into the Hole in One game, you get a chance at both the ESB & Rotary prizes!!

**\$5 per hole
\$10 for all 3**

JOKE



AMUSEMENT

Across

1. English TV station
4. ___ Full o' Nuts
9. Is that ___?
10. Great Lake
11. Bronx cheer
12. Very fat
13. Soak up
15. Chemical symbol for balloon gas
16. Eventually become
18. From
20. Legendary
23. Implied
25. Did lunch
26. Accustom
27. ___ and outs
28. Daughter of Saturn
29. N. or S. ___, state

Down

1. Ali ___ and the 40 Thieves
2. Amorphous mass
3. Intimate
4. Vertebrates
5. Uproar
6. Bonanza find
7. Bludgeon
8. Trick joint
14. Hot
17. Tartan
18. Ear-related
19. Temple: Arch.
21. 11,000-foot Italian peak
22. Secretary, e.g.
24. Blackguard

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		



2012 Raffle

1st Prize: Kindle Fire
2nd Prize: \$100 Gas Card
3rd Prize: \$50 Gas Card

\$3.00

2 for \$5.00

Every member will receive 20 tickets to sell.
Please help this fundraiser!!

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Online tools for Engineering Students

John Hayes posted on September 10, 2010

We recently spoke with 4 second year engineering students at Queens University in Kingston Ontario to find out what online tools they use to help their studies. It turns out that they don't have to resort to Google to solve engineering problems.

Their school has a number of online tools purchased for their use. Among their favorites were Mastering Physics and Mastering Chemistry from Pearson. The way this offering works is that the professor selects content that matches their course outline. The content includes problems, hints, corrections and solutions that the students can conquer online during their study time. The best thing about it is how wrong answers get corrected by the software, and then how a similar problem is presented until the students feel they have confidence in their knowledge.

A similar tool is Web Assign from North Carolina State University. Their partners at Cengage, a textbook

publisher, present the textbook content including problems and tutorials online. Apparently they can turn any text-book into an interactive online learning tool that allows students to focus on areas where they are having trouble.

Moodle is an open source (read "free") toolset that allows instructors to put their own course materials online into an interactive environment.

The Queens students are using all of these online tools and more in their regular curriculum. With tools like these it's no wonder they are confident of getting their engineering degrees. Instead of a "sink or swim" environment, they know that if they spend the time they will be able to learn the concepts and graduate. What a concept!

* Taken from engineer.com

"It turns out that they don't have to turn to Google to solve their engineering problems."

Student Member Info needed!

Tell us about your school activities. Ask a question you've always wanted to know about engineering. We want this page to be for you, our student members. Please, help us to provide relevant content for you! All submissions become the property of ESB

and may be edited due to space constraints etc. Send your article to Robin Closs at robin@rjrpc.com. Hey, we'd accept technical articles for the front cover too. Your writing could be on the front cover of a publication. How cool is that?!?

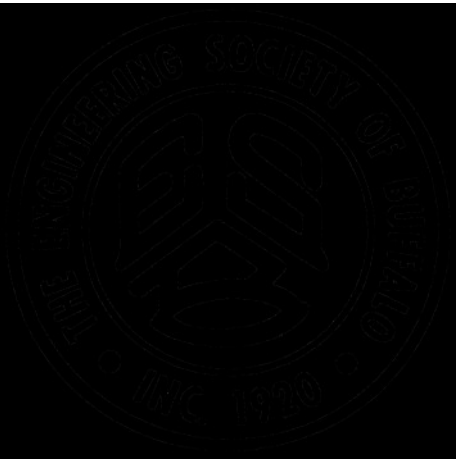
MEETING MINUTES

Advertising/Marketing:	Received 2-3 new advertisers for the newsletter.
Audit:	No report.
Bowling:	On Hold. Tom Glynn is going to try and make it.
Business/Community Affairs/Publicity:	Turkey shoot and whiskey shoot scheduled for Dec 21 and St. Patrick's Day.
Bylaws:	No report.
Car Show:	Jerry Meyer Sr. & Augie Taboni are the contact for the raffle.
Education:	No report.
Endowment:	Is up. Rebuilding money.
Entertainment and Program:	Had a great tour at the Flying Bison . Free beer was served and all had a fabulous time. November 17 was the tour of the Statler . 12 people were on the tour that covered the basement and lots of other parts of the building. A big thank you to Pat Conway for the tour. Mary Eileen is coming in for engineer's week February 11 @ UB. The Xmas party is still open and looking to fill just a few spots. Call John Beishline (694-5154) for your spot.
Golf:	The Rotary Club of Buffalo is splitting the proceeds to a golf outing at Tan Tara Golf Course.
New Membership:	3 new members are under review.
Newsletter:	The news letter is going over well with lots of positive comments. 3 quotes for printing in color are being accepted.
Nominating:	Hold off till the first of the year.
Office:	Robin Closs cleaned out the office. Thank you Robin.
Retention Membership:	John Beishline cleaned up all loose ends.
Roster:	Kim Burr is done with the roster. Should be out in January.
Scholarship:	Checks will go out late Jan or early Feb.
Scholarship Run:	No report until after new yr.
Sunshine:	Kim Burr went into the hospital for a heart issue. Hopefully all is well. Might be out of the office for a couple of days. Dick Weimer lost a leg to an aneurism. Our thoughts and prayers are with him. Please send a Christmas card or get well card to Dick to show your support.
Website:	No report.
Meeting Location:	Our next meeting will be at Alice's Kitchen .

-
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