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ENGINEER—TEST
MEASUREMENT8

○ ISSUE 8 | ○ VOLUME 84 | ○ APRIL 2012

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(716) 873-4455
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WNY engineer

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TECHNICAL ARTICLE

PCB Piezotronics

Who is PCB®?

PCB Piezotronics, Inc. (PCB®) is an independent, privately owned company, founded in Depew, New York in 1967 by Bob and Jim Lally.

PCB® specializes in research & development (R&D), manufacturing, and sales of piezoelectric, piezoresistive, MEMS, strain gage, and capacitive-based sensors and related instrumentation.

PCB® was started in the founder's basement and has grown into a global leader in sensor technology, employing more than 800 people worldwide. Our company is organized into divisions, which include Test & Measurement; Automotive; Aerospace & Defense; Energy; Industrial Vibration Monitoring known as IMI Sensors; and Larson Davis.

Our Depew, NY corporate campus continues to expand locally with the recent addition of a 50,000 sq. ft. machining facility. R&D and manufacturing facilities are also located in California, Washington and North Carolina. Technical sales and support facilities are located in Michigan. PCB® also has International sales offices in China, France, Germany, Hong Kong, Italy, Japan, Sweden and the United Kingdom, and more than 60 international distributors.

What is Piezoelectricity?

Piezoelectricity was discovered by brothers Pierre and Jacques Curie in 1880. the Curies found when certain types of natural crystals are squeezed, like quartz and tourmaline, they generate electrical output. At PCB®, we incorporate quartz crystals, along with microelectronics, inside of sensors that customers use to measure pressure, force, strain, load and vibration.

What Does "PCB®" Mean?

PCB® is taken from a technical term, **PicoCoulomB**, the measurement of an electrical charge output generated when a crystal is stressed.

Piezotronics combines the words "Piezo" and "Electronics" to convey the message that PCB® manufactures piezoelectric sensors with built-in electronics.

What are Sensors?

Sensors are small, electromechanical devices that engineers and technicians use for design, test and monitoring purposes. Sensors can measure acceleration, pressure, noise, shock, vibration, strain, force and torque. The term "transducers" is often used interchangeably with "sensors".

PCB® also manufactures cables and signal conditioners to couple sensors into readout instruments, analyzers, and data acquisition systems.

How are PCB® Sensors Used?

PCB® sensors are used by manufacturers to help them design, develop and test products that are energy efficient, and vibration and noise-free.

For example, our customer Carrier Corporation continually strives to make their air conditioners more energy efficient and quiet, so they can sell more of them.

They use PCB® accelerometers and microphones to identify sources of vibration, and make design changes to reduce annoying noise, improving the quality of their air conditioners.

Continued on page 2

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PRESIDENT'S MESSAGE



Have you read the ESB Constitution and Bylaws lately? When was the last time you read either of these? Are we doing what we say we should be doing? How well are we doing what we say we should be doing? Pick up your latest copy of the ESB Roster and Yearbook and read through the Constitution and Bylaws. The Constitution states what the ESB will do and the Bylaws state how the ESB will do it. It really is very interesting reading! It may even surprise you. What should we be doing? How should we be doing it? I would appreciate any feedback of what should be changed and what should remain the same. I can be reached at bbassano@roadrunner.com.

One of our upcoming events is the Bi-annual Adopt-A-Highway clean up along Colvin Boulevard on the 21st.

Many hands make for light work! So please join other ESB members for a couple of hours and take a walk and enjoy the great outdoors. Call our Office Administrator, Kim, and let her know you will be joining us.

Also, on May 17th is our annual election of Board of Directors, so mark your calendars. This is your chance to elect the people that you want run your society. Read through the bios and come out and support your favorite candidates. I am sure they are all well qualified to help led our organization. It is also a great way to meet other members, have a couple pieces of pizza, a few wings, an adult beverage and a chance to win some cool prizes! Overall, it is a fun evening! Call our Office Administrator, Kim, and let her know you will be attending.

Continued from page 1

Likewise, automotive companies use PCB® sensors to make cars as safe, vibration, and noise-free as possible. Factories use our industrial vibration sensors for machine health monitoring, to improve efficiency, reduce downtime, and lower operating costs.



Load Cells



Microphone Array



Force Sensors

CALENDAR OF EVENTS

04-02-12	6pm	Ways & Means and Board Meeting	ESB Office
04-04-12	Noon	OF Luncheon	Royal Restaurant
04-10-12—?		Kim surgery, ESB Office closed 3-4 weeks	
04-24-12	3pm	Niagara International Transportation Technology Coalition Tour	
05-07-12	6pm	Ways & Means and Board Meeting	TBD
05-09-12	Noon	OF Luncheon	Royal Restaurant



GOLF OUTING

Format

4 man scramble

Rules

- 4 person team
- No handicaps
- Pick clean
- Place ball within one club length
- Speedy play a MUST (five hours or less)

Prizes

- Low Team Score—\$100.00 each
- Closest to Pin—\$100.00 (4)
- Longest Drive—\$100.00 (1)

Cost

\$115.00 Lunch, Golf & Dinner per golfer

\$5.00 per hole or all 4 holes for \$15 for chance at Hole in One prizes

\$35.00 for dinner only

SPONSORSHIP PACKAGES

The ESB is an IRS approved non-profit organization under Section 501 (c) 3, all sponsorships are tax deductible.

Titanium Sponsor \$1000.00

Display of you business banner, tee box sign, foursome in tournament and recognition in our dinner program, designated as a "Titanium Sponsor".

Platinum Sponsor \$500.00

Display of you business banner, tee box sign, twosome in tournament and recognition in our dinner program, designated as a "Platinum Sponsor".

Gold Sponsor \$250.00

Your business name will be displayed on a tee box sign, single player in tournament and recognition in our dinner program, designated as a "Gold Sponsor".

Silver Sponsor \$150.00

Your business name will be displayed on a tee box sign and recognition in our dinner program, designated as a "Silver Sponsor".

All sponsors will receive recognition throughout the event.

Chance at Hole in One Prizes

\$5 per hole or \$15 for all 4 holes

Sign-up as a single or foursome by sending this form with payment by June 1st to:

The Engineering Society of Buffalo
3200 Elmwood Avenue, Room 206
Kenmore, New York 14217

Business Name: _____

Address: _____

Contact: _____

Phone: _____

Number of Golfers: 1 2 3 4

\$115.00/ea = \$ _____

Name of Participants: (please print)

Please circle dinner choice: 10 oz. Strip Steak or Chicken Cordon Blue

1. _____ B C

2. _____ B C

3. _____ B C

4. _____ B C

Titanium Sponsor: NO YES \$1000.00

Platinum Sponsor: NO YES \$500.00

Gold Sponsor: NO YES \$250.00

Silver Sponsor: NO YES \$150.00

Dinner Only: \$35.00

Hole In One (per player) \$5 \$15

Total Enclosed: \$ _____

**THANK YOU FOR YOUR
SUPPORT**

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UPCOMING BIRTHDAYS

April 4	Dan Troy & Keith Harlock
April 9	Robert Haungs II
April 12	Dave Debo
April 15	Bob Smith
April 18	Robert Haungs
April 23	Robert Runge II
April 24	Aaron Lange
April 25	Peter Romano Jr.



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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:

Titanium Sponsor - \$1,000.00

Display of your business banner, tee box sign, foursome in tournament and recognition in
our dinner program, designated as a "Titanium Sponsor".

Platinum Sponsor - \$500.00

Display of your business banner, tee box sign, twosome in tournament and recognition in
our dinner program, designated as a "Platinum Sponsor".

Gold Sponsor - \$250.00

Your business name will be displayed on a tee box sign and recognition in our dinner
program, designated as a "Gold Sponsor".

Silver Sponsor - \$150.00

Your business name will be displayed on a tee box sign and recognition in our dinner
program, designated as a "Silver Sponsor".

We are also in need of items for our giveaway table. These items can be corporate promo
items from your business or store bought items.

To reserve your tax deductible sponsorship,
complete and mail the form below along with your check to:

Engineering Society of Buffalo, Inc.

3200 Elmwood Avenue Room 206, Kenmore, New York 14217

Phone # 873-4455

Make your check payable to "ESB"

Return by June 1, 2012 to be included in our Dinner Program

Business Name: _____ Phone: _____

Individual Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Check One: ☐ Titanium ☐ Platinum ☐ Gold ☐ Silver

Please note: We have added a single player to be included in the \$250
Gold Sponsorship Level

Electronics Engineer—Test Measurement

Taken from: Engineer Live

Angular encoder operates in harsh environments

Zettlex is launching a high-precision angle encoder that uses an innovative absolute inductive measuring technique. The measurement performance of the device is claimed to be unaffected by humidity, moisture, condensation or dust and is therefore suitable for use in harsh environments where electrical contacts, optical encoders or capacitive devices may be unreliable. Known as the Incoder, this device is a non-contact, high-precision absolute angle encoder that has a stator and a rotor, each in the form of a flat ring. The large bore makes it easy to accommodate large through-shafts, slip rings or cables, for example.

“Because of the way we have designed the Incoder, there is no requirement for couplings or gears between the main shaft and the encoder.”

According to Zettlex, the Incoder is suitable for a variety of applications, including: test and calibration equipment; rotary joints and gimbals; camera mounts; actuator servos and motor encoders; radar systems; light and heavy-calibre weapons systems; antenna-pointing devices and range finders; robotic arms and CNC machine tools; packaging machinery; and laboratory automation.

Mark Howard, general manager at Zettlex, comments: "The Incoder has an unusual shape and so immediately grabs the attention of design engineers. The device was purposefully designed to be flat with a low profile - so it makes life easier for design engineers when they are struggling with limited space. For example, bearings, drive shafts or cables may need to be passed right through the space where traditional rotary encoders might sit. This is where Incoder really provides engineers with technical advantages."

In operation, the Incoder's stator is powered while the rotor is passive; the stator contains all necessary power supply and signal processing electronics, and the electrical output from the stator shows the relative position of the rotor.



Howard states: "Because of the way we have designed the Incoder, there is no requirement for couplings or gears between the main shaft and the encoder. The rotor and stator can simply be screwed directly to the host product. Precise mechanical mounting is not required and there is no need to align bearings." Regarding the Incoder's ability to survive in harsh environments, Howard says: "The Incoder will even survive temporary immersion in salt or fresh water to a depth of up to ten metres."

In harsh environments, the Incoder is unaffected by condensation or dust. Robust aluminium alloy housings and monolithic constructions are used for both rotor and stator. With the Incoder there are no contacting, delicate or wearing parts, which means no periodic replacement, servicing or maintenance. Howard adds: "Incoder already has a solid track record in safety-related applications, including airborne equipment, military manned and unmanned vehicles, and weapons systems."

Although the Incoder works in a similar way to a resolver, it uses laminar windings rather than wire spools, which enables higher measurement performance, a more compact design, low mass and low inertia.

Incoders are available with outside diameters from 75mm (INC-75) up to 250mm (INC-250), although other sizes are available as custom OEM versions.

For more information, visit www.zettlex.com

Kim will be having surgery on April 10th.

I expect to be out for 3-4 weeks.

Please have any newsletter articles in to me as soon as possible. Also, please start getting your golf sponsorships and teams in to me as well. I also need your raffle stubs and money. The drawing is at the golf tournament.

I can be reached at home after April 17th for office items. 982-6173.

Any other items can be handled by Brad Bassano or John Beishline.



Our spring clean up is set up for April 21st.

Please contact Brad to sign up. We need at least 10 people to volunteer.

Scholarship Students

Scholarship
Save the Date

Scholarship Recipients, don't forget to keep your schedule open for the Scholarship 5K Race.

You are needed to help at the Water Station. Plan on arriving by 6:30 pm.

This year's race will be August 1st.



Jeffry Wach is the Chief Operations Officer and co-owner of EGW Personnel Staffing, a full service staffing and direct hire recruiting firm servicing Western New York since 1969. EGW provides strategic hiring solutions in the Engineering, Technical, Industrial, Professional, and Administrative fields, operating out of offices in Buffalo, Rochester, and Arcade. Mr. Wach oversees all operations of the company including HR, Finance, Safety, and Risk Management. Mr. Wach graduated from Clarkson University in 1987 with a BS in Mechanical Engineering and along with his wife and three girls, resides in Colden.

*** Jeff has been elected as a 1st Year Director to fill one of two vacant seats from the 2011 election.**



Dwight Moldenhauer, CLU, ChFC

Mr. Moldenhauer is a principal of Dwight Moldenhauer, Inc., which specializes in tailored executive benefit strategies for business owners and executives of public corporations as well as closely held private companies. With over 25 years of experience, Mr. Moldenhauer is recognized as an industry leader and is a desired advisor for many accountants and attorneys who recognize the unique knowledge he brings to the team.

In addition to a bachelor of Science degree from Buffalo State College, Mr. Moldenhauer is a graduate of The American College, earning designations as a Chartered Life Underwriter® and Chartered Financial Consultant®.

Dwight lives in Buffalo, NY with his wife Moira and their two sons Egon who is a student at SUNYAB and Adler who is a student at Le Moyne College in Syracuse.

Christopher M. Sargeant, P.E. is a Project Engineer at T.Y. Lin International's Buffalo office. As a Project Engineer, he is responsible for providing engineering support, developing construction plans and documents and preparing proposals for a variety of highway design and traffic engineering projects for both public and private sector clients. He is a licensed professional engineer in the state of New York. Mr. Sargeant graduated from Clarkson University in 2001 with a Bachelor of Science in Civil Engineering. He resides in Hamburg.



Salvatore Sciandra, Business Development Manager of Frey Electric Construction Company, has been in the electrical construction industry since 1981, serving his apprenticeship with IBEW Local #41. He holds Master Electrician licenses in Buffalo, Niagara Falls, Rochester & most other surrounding municipalities. At Frey, his concentration is on negotiated projects and Building Management System installations.

Mr. Sciandra is currently President of the Niagara Frontier Subcontractors Association and a member of the City of Buffalo Electrical Board of Examiners. He has 3 sons and lives in North Buffalo.

As a senior-level operations management leader with expert process improvement and business development skills, **Marco Scofidio, P.E.** is the Product Manger, Steel Structures at Wendt Corporation. Prior to this, Marco led a multi-site team of up to 46 professionals as Principal Engineer & Civil Structural Department Manager at ATSI, Inc., and served as Chief Operating Officer at Construction Lending Services, Inc. Marco's entrepreneurial spirit—previously led to a winning five-year turn as President and Chief Executive Officer of Criterium/Scofidio Engineers, LLC. During his 11-year tenure at Birdair, Inc, he served as Project Manager and Business Development Manager after being hired on as a Senior Project Engineer. Earning his own way through college, Marco worked as a draftsman at a private Buffalo firm and as a structural engineer at Occidental Chemical Corporation and as a Project Manager at Malcolm Pirnie.



Marco is an alumnus of the University of Buffalo, where he earned both his Master of Business Administration and Bachelor of Science in Civil Engineering. He is an active member of the National Society of Professional Engineers (NSPE), Engineering Society of Buffalo (ESB), Project management Institute (PMI), and the Secretary for the American Society of Civil Engineers (ASCE). Licensed with the National Council of Examiners for Engineering & Surveying (NCEES), Marco holds his licensed professional engineer designation in the states of New York, Michigan, Maine, and Pennsylvania.

He resides in Clarence with his wife and two college age daughters. Marco enjoys bicycling, camping, metal detecting, and family history research.



*Calling all Members...WE WANT YOU...
To VOTE!*

Election Day is Thursday, May 17th!

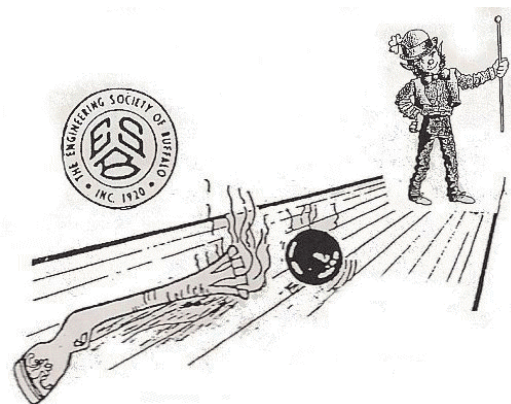
Rizzo's Restaurant - 2763 Eggert Road, Tonawanda
6:00 PM – 9:00 PM

Pizza, Wings, Antipasto, Beer and Pop will be provided.

RSVP to the ESB Office by May 9th.

YOU MUST BE THERE TO VOTE!

BOWLING WEEK 28 ~ 3/14



**ESB ST. PADDY SHOOT
MARCH 14, 2012**

<u>TEAM STANDINGS</u>	<u>WON</u>	<u>LOST</u>	<u>TOP 10</u>	<u>SCORE</u>
1. LIVE WIRE	133	63	1. PAUL MORROW	218.95
2. OUTCASTS	106	90	2. BRIAN OLKOWSKI	205.97
3. SPLITPINHEADS	103	93	3. ERIC MURPHY	195.88
4. SPLIT HAPPENS	99	97	4. CHRIS GABRIELLI	195.16
5. FINGER HOLES	96	100	5. TODD HUTH	193.56
6. DEAD LOADS	95	101	6. DENIS FOUNTAIN	191.12
7. PROTRACTORS	93	103	7. BUD GARRISON	183.75
8. TRANSMITTERS	93	103	8. SCOTT SUTHERLAND	182.15
9. CAD/CAMS	86	110	9. JOHN GIRDLESTONE	181.86
10. GO BILLS	76	120	10. MERRILL ARTHUR	181.38

<u>WINNER</u>	<u>W/HC</u>
1. AJ CICH	276
2. NORM DUDZIAK	273
3. BUD GARRISON	271
4. PAUL MORROW	269
5. JIM GUGINO	267
6. STEVE CHOWANIEC	264
7. DENIS FOUNTAIN	255
8. CHUCK GIRDLESTONE	254
9. JIM STONE	249
10. CHUCK SAUPP	249
11. PAT MUDD	247
12. ERIC LESTER	244
13. MERRILL ARTHUR	244
14. RICK DECK	242
15. CHRIS GABRIELLI	239
16. ED GREMBOWICZ	239
17. TOM GLYNN	236
18. ED KILGORE	233

<u>200 GAMES SCRATCH</u>		<u>600 GAMES SCRATCH</u>		<u>CROSS ALLEY W/HC</u>	
PAUL MORROW	277	PAUL MORROW	721	AJ CICH	276
BUD GARRISON	243	JIM GUGINO	643		
JIM GUGINO	236	BUD GARRISON	621		
DENIS FOUNTAIN	236				
NORM DUDZIAK	225				
AJ CICH	224				

The Engineering Society of Buffalo will be hosting its
32nd Annual 5K Scholarship Race to be held: August 1, 2012

NFTA Small Boat Harbor, 1111 Fuhrmann Boulevard, Buffalo, NY 14203
We appreciate your support. Your sponsorship will help us to provide scholarships
while promoting your business. Sponsorship deadline is August 1, 2012.

There are three levels of sponsorships to choose from:

Gold Sponsor - \$1,000.00

Company Name and Logo displayed prominently on all race promotional materials such as race applications, advertisements, posters, etc. and acknowledgement of sponsorship during race activities.

Silver Sponsor - \$500.00

Company Name and Logo displayed prominently on all race promotional materials such as race applications, advertisements, posters, etc.

Donor – Any amount up to \$499.00

Company Name and Logo on Race Donation Board/Lists

If you are able to help out again this year, please contact John, Don McMahon or Kim.
Plans are currently underway.

UPCOMING EVENT

Tuesday April 24, 2012	3:00 PM
Niagara International Transportation Technology Coalition	93 Oak Street Buffalo NY 14203

ESB will tour the NITTEC facility on April 24, beginning at 3:00 pm. The tour will last one hour. NITTEC provides real time traffic and roadway information to improve traffic flow and traffic safety in Western New York and nearby Canada, including the 4 international bridge crossings. This tour will feature the high tech traffic engineering tools available in the NITTEC Transportation Operations Center, including closed circuit television, dynamic message signs, real time weather advisories, and other special tools. As we drive on our local major highways, we see some of these devices in place. The April tour will provide an opportunity to learn how everything comes together in the area of traffic management and engineering at NITTEC.

Depending on interest, we may follow the tour with an informal social hour at a nearby pub.

RSVP to Kim Burr at esboffice@tesb.org and copy to Jon Kolber at mjk076@gmail.com by Friday April 20. Don't miss out on this special opportunity!

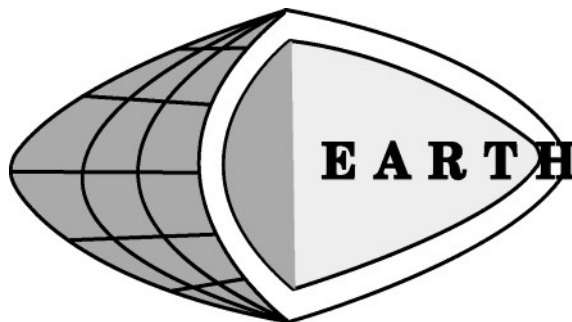
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Hole in One Prizes!



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:

**18K White Gold
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1.50 CT total weight
\$4,995 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!!

\$10,000 CASH

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

**\$5 per hole
\$15 for all 4**

We need a non-golfer to
volunteer to come out to
the tournament and
verify our hole in one
prize.

JOKE

Did you hear about the teacher who was helping one of her kindergarten students put on his boots?

He asked for help and she could see why. With her pulling and him pushing, the boots still didn't want to go on.

When the second boot was on, she had worked up a sweat.

She almost whimpered when the little boy said, "Teacher, they're on the wrong feet."

She looked and sure enough, they were.

It wasn't any easier pulling the boots off than it was putting them on.

She managed to keep her cool as together they worked to get the boots back on - this time on the right feet.

He then announced, "These aren't my boots."

She bit her tongue rather than get right in his face and scream, "Why didn't you say so?" like she wanted to.

Once again she struggled to help him pull the ill-fitting boots off.

He then said, "They're my brother's boots. My Mom made me wear them."

She didn't know if she should laugh or cry.

She mustered up the grace and courage she had left to wrestle the boots on his feet again.

She said, "Now, where are your mittens?"

He said, "I stuffed them in the toes of my boots..."

AMUSEMENT

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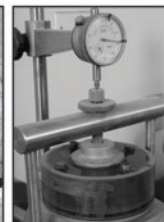
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KINDLE RAFFLE TICKETS

1000 tickets were sent out to members for our Kindle Fire raffle.

I need to get the stubs and money returned to the office.

The drawing is being held at our Annual Golf Tournament on June 11th.

I will be out of the office for my family vacation and surgery soon.

MEETING MINUTES

Advertising/Marketing:	Received 2-3 new advertisers for the newsletter.
Audit:	Was submitted and was fine.
Bowling:	Have a St. Patrick's Day bowling meeting. The 27 th of April is the final night of bowling.
Business/Community Affairs/Publicity:	Need a new board contact. Augi Taboni volunteered to fill the spot.
Bylaws:	Committee has met and is having trouble finding out what has changed from the last review. They will have something to report next meeting. They have some good changes.
Raffle:	Members need to sell more tickets and to turn in the money collected. Almost no money has been collected for the raffle so far.
Education:	Need a new chair for the committee. The PE review course is going well. There are 15 students enrolled in the class.
Endowment:	Don McMahon will set up a meeting for the committee.
Entertainment and Program:	Tour of Nitec in April is planned.
Golf:	June is golf month. Sponsors are lined up for the tour. There are spots still available.
New Membership:	No new members.
Newsletter:	Looks great. Corporate membership has gone up to 5 people that can be on the ESB for the same price as last year. A reminder should be put in the newsletter.
Nominating:	John B has one more candidate. Membership has gone down but John is looking at candidates that are in good standing for the society. John is having trouble with getting people interested.
Office:	Kenmore school district may be looking at taking back the building where the ESB office is located so there is a possibility of the ESB office moving to a new location. The Construction Exchange does have space available at its headquarters. The Office committee is established with 2 contacts, Brad B and Robin C.
Retention Membership:	No Report
Roster:	No Report
Scholarship:	Don Kossuth has reviewed Scholarship forms and will be sent out soon.
Scholarship Run:	August 1 st is looking as the date for the run. Looking to change the run to a 4 mile race. NFTA is great to work with. They are donating a tent again for us. Comments from last year say that people are looking to drink longer than 1hr. So the permit is going to be extended farther into the night for the runners.
Sunshine:	No Report
Website:	Kim is working on the new website. She is putting out an email that looking for help.
Adjournment:	The meeting adjourned at approximately 7:00 P.M.

ESB has received another donation for the Scholarship program.

Dick Weimer's niece and nephew sent a check on his behalf.



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