

MICHELLE STIRLING: FRIENDS OF SCIENCE SOCIETY



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Bulletin Chair: Bev Ostermann
Editor: Carol Graham
Photographer: John Shield

NOTE FROM BEV OSTERMANN (BULLETIN CHAIR)

Please ensure that all addresses, phone numbers and emails are up to date on Club Runner. We are preparing to update our Roster information and want everyone's information to be as accurate as possible

THANK YOU!

Joe Connelly introduced our guest speaker **Michelle Stirling**. Michelle is the contract Communications Manager for the Friends of Science Society. She has worked in marketing, communications, advertising and film/video production. She worked as a career development officer for five years and paired that with economic development at a community level. Michelle also did a ten year stint in Israel during the high tech and science tech boom of the "Start-up Nation"-working with many advance industries in aerospace, defence, software, telecom, desalination engineering, agriculture and biopharma.

Upon her return to Canada she worked for a time at Alberta Environment as an Information Coordinator, the year that the Sierra Club gave Alberta an "F" and Ontario a "B plus". That jump started her interest in climate change policies.

It also led to her subsequently encouraging Friends of Science to challenge the claims of the phase out coal campaign in Alberta.

Michelle began by saying that I have to thank the Rotary in more ways than one for being here. First of all, I thank YOU for inviting me – secondly, I thank Chuck Simpson, Downtown Rotary member for contracting me to work with Friends of Sciences and thirdly, I thank my long-time friend Luther Haave, Past President of the Edmonton Rotary Club, who first introduced me to Friends of Science Society! FRIENDS of SCIENCE Society looks at the EVIDENCE over the Ideology on climate science, policy and economics.

Our view is that the Sun is the main direct and indirect driver of climate change – that human emissions of carbon dioxide are a nominal factor in global warming – and that overall, carbon dioxide is a CONSEQUENCE of climate change, more than a cause. The earth's climate system is made up of many terrestrial and cosmic factors...it is a complex, chaotic 'wicked' system.

Friends of Science Society has been on the climate science and policy issue for about 15 years now. We began with Kyoto... a small group of earth, atmospheric and solar scientists and concerned business people started Friends as a non-profit back in 2002.

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- This complex field was being reduced to 2 simple themes - carbon dioxide from fossil fuels = CATASTROPHIC human-made global warming/climate change.
- While warming was evident, and there is consensus on that, there is no consensus on the cause, the ratio of factors (human vs natural), the scope, mitigation or cost-benefits of same. Overall, to our group and most scientists, catastrophe seems unlikely and the possible impacts are in the future. We have time. We saw then that costs were exorbitant and economic destruction inevitable under Kyoto. Today? Same. Because...2016.

In very simplistic terms – you can see for yourself. Go to Okotoks and look at the Big Rock – the largest known glacial erratic on the prairies, pushed there from Jasper during the last ice age. We were under 2 miles of ice then. Who left their SUV running and melted that away?

If any of you are history fans, you can read of climate change, directly and indirectly throughout history. Hannibal crossed the Alps on elephants in the Roman Optimum – no reference to snow in those otherwise meticulous Roman records of the time. Castles were built in the ‘Camelot’ days of the Medieval warm period – and chaos and famine ensued during the Little Ice Age. Many of the world’s most popular theatre productions have a backdrop of climate change – Joseph and the Amazing Technicolor Dreamcoat – 7 fat cows eaten by 7 thin ones...Les Mis – Les Misérables...telling the grim story of life during the end of the Little Ice Age in France. You can see here that our Current Warm Period is about the same or less than previous warm periods – and that this temperature change has some cyclical behavior.

Consequently, we say “Politicians can’t stop climate change”. Politicians CAN help improve air quality and address other pollutants. We think that is the best use of public funds. But they can’t stop climate change.

However, YOU can stop flawed climate policy! In our view:

- Alberta Climate Policy, Carbon Tax, Coal Phase-out are flawed
- Alberta Climate policy would result in a possible reduction of 0.00007° C by 2030. This is insignificant + immeasurable.
- Carbon tax will not reduce GHG emissions but will put people into heat-or-eat poverty
- Coal phase-out will cost Albertans more than \$22 Billion (>\$11 Billion to build new equivalent capacity NGas plants; >\$11 Billion for compensation) + \$2 Billion for PPA law suit.
- * Wind+solar will take an estimated ~\$1 billion/yr. subsidies + cost \$1 Million/MW to integrate to the grid FOR NO RELIABLE POWER

We believe the Alberta public is being misled on the claimed negative health effects of coal – that the evidence shows many other sources of emissions which are far greater and at ground level.

This graph (from Environment Canada stats) shows that fine particulate matter emissions from residential fire places was DOUBLE that of coal plants (2011)

With agriculture, construction and road dust being MANY times that...and the most being wildfires...one THOUSAND times the PM2.5 emissions of coal.

Sadly, we believe the government and the public are being seriously misled by one of the main consultants to the Alberta Climate Plan. This is a tweet from Pembina Institute saying “Now’s the chance to kick Alberta’s coal habit, will you help?” First of all, this steamy mess is probably just steam – but most important, this plant is NOT EVEN IN ALBERTA. Adjacent you see an Alberta coal plant.

Alberta is powered by coal. We have lots of it here, very high quality, low sulfur and Alberta OWNS it – so it is very cheap. Affordable power drives industry – industry uses 75% of the power in Alberta and industry creates jobs and pays taxes.

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In 2014, 55% of our power generation was from coal with 35% from natural gas.

This graph shows that in 2015 coal generation served 64% of the system load.

You can't change that overnight without incurring huge costs and challenges to grid reliability. A 14 year window in power generation is 'overnight'

Just to make it abundantly clear – here's what the Alberta Electric System Operator recorded as the output of generation on Christmas Day of 2015 at 3:46pm. It was coal powering the province. Take that away and you can see that we would not have had capacity to serve our needs in winter.

Alberta's Electricity Generation - 2014

Generation	Gigawatt Hour (GWh)	Generation Share By Fuel
Coal	44,442	55%
Natural Gas	28,136	35%
Hydro	1,861	2%
Wind	3,471	4%
Biomass	2,060	3%
Others*	373	0%
Total	80,343	100%

Source: Alberta Utilities Commission (AUC)

*Others include fuel oil and waste heat

And you perhaps saw this headline yesterday – Questions SHOULD loom – everyone in this room should be asking their MLA and MP how the province will be powered and how much it will cost...because so-called 'renewables' are NOT dispatchable...or on-demand power. They work only when the wind blows or sun shines just right. They cannot 'replace' coal for that reason. They ALSO need 100% conventional back-up – and usually that is natural gas. This power must be kept 'spinning' in the background so that when wind or solar drops off...there is an immediate source to fill in. Meaning you are paying for double the power...for nothing. In that article of yesterday, Minister Phillips is quoted as saying "What we know about renewables is that they lower the price for consumers." Really? We do not have evidence supporting that claim. In all the Western nations with more renewables on the grid, power prices have more that doubled or tripled.

And for all the extra costs of integrating wind and solar to the grid – about \$1 million per MW...plus billions of dollars in transmission lines... your costs go up...the producer makes money off subsidies (from you) and trading Renewable Energy Certificates ... like hey – it's YOUR wind and solar...should YOU get a cut? The outcome in the EU and UK and Ontario has been heat-or-eat poverty for formerly middle class people; the shut down of industry; the decimation of the land and destruction of important birds/bats – very important to Alberta's agriculture ecosystem.

TNG - Total Net Generation

* Indicates that the value reported in MC column actually represents the asset's MCR

GENERATION			
GROUP	MC	TNG	DCR
COAL	6289	4875	10
GAS	7214	4092	138
HYDRO	894	227	250
OTHER	428	276	0
WIND	1463	266	0
TOTAL	16288	9736	398

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The Carbon Tax we see as a burden with no benefit. We have a number of video clips with Dr. Ross McKittrick explaining why this is so, along with a layman's guide to how the Social Costs of Carbon are calculated...and we used coal phase-out as an example.

16. Finally, though anti-coal activists claim there will be health savings – every aspect of modern medical care relies on AFFORDABLE POWER. Every hospital consumes a fortune in power every month – a rise in prices will necessarily mean cuts to services, fees or staff. Please read our detailed report “Burning Questions” which does a thorough review of the issues.

http://www.friendsofscience.org/assets/documents/FoS_BurningQuestions_Health_Coal_Wildfires_Jan2015.pdf

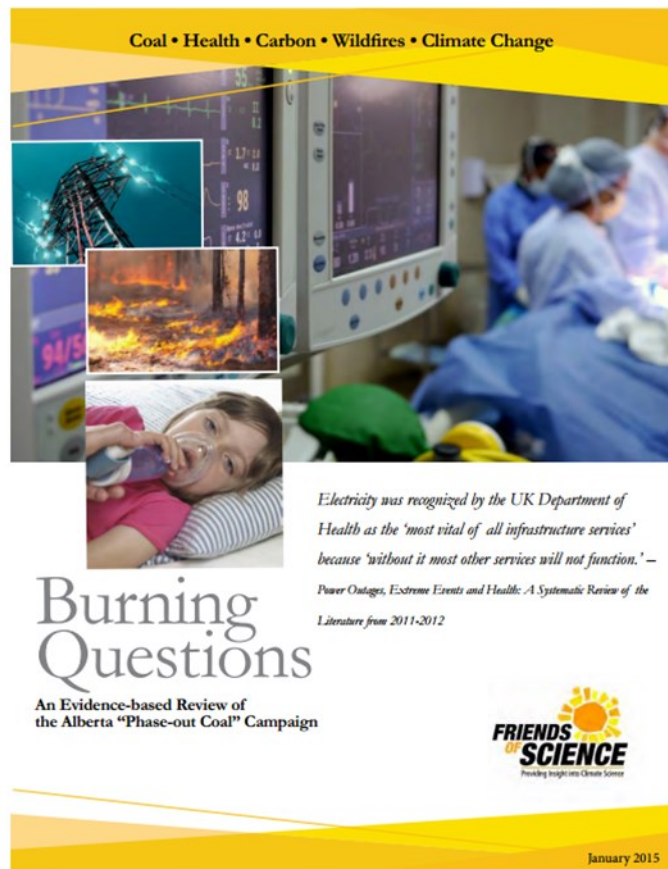
Finally – speak up. This is your province, your power bill, your children's future.

I would be happy to provide more information. We have a number of videos, commentaries and reports on our website on this matter as we have been tracking the coal phase-out issue for about 3 years. As far as I know we are the only people actually putting a price tag and consequences on the Alberta Climate Plan. I invite you to join us. Become a member, or donate to help us. We're fighting for you and all Albertans to be properly informed and to have fair public debate and full cost-benefit analysis. Thank you for inviting me.

Questions for the Speaker ranged from how China gets a pass on their pollution, especially in relation to coal, how the youth are being engaged in this debate and disappointment that the presentation was more political than scientific and the larger concern of what we need to do to deal with these issues rather than argue that the Friends of Science is right and “they are wrong”. Good discussion.

Chas Filipski thanked Michelle for her presentation which spurred him to learn more about this issue. He commented that we can't resolve who is right or who is wrong over lunch but it clearly shows we need to be more involved.

President Ken also thanked Michelle for taking the time to be with us today and advised that on her behalf there would be a \$100.00 contribution to our Stay in School program and as well presented her with a Rotary coin with our 4-way test.



CLUB NEWS

President Ken Farn welcomed everyone to the Rotary Club of Calgary South. He then asked us to join Lisa Fernandes and the Head Table in the singing of O Canada followed by Rotary Grace.

Head Table: Joe Connelly, Michelle Stirling (Guest Speaker), Bob Wiens, Bill Sumner and Larry Stein

Bulletin Editor: Carol Graham **Photographer:** John Shield

Guests: Mark Ambrose introduced our guests today

Health and Wellness: Bonar Irving reported that **Jim Gorman** is back home and has already been out for a walk and a drive. He is coming along great but tires easily so please phone first if you wish to visit.



George and Lois Adam Anniversary: President **Ken** announced that **George and Lois** will be celebrating their 60th wedding anniversary on September 23rd. Congratulations to both George and Lois!

Terry Fox Run: Larry Stein advised that his goal of having 20 volunteers to help with the registration for the annual Terry Fox run in Calgary has been achieved. The date is Sunday September 18 at the Telus Spark Science Centre in the northeast, near the Zoo. Start time is 8am until approximately 11:30 am and volunteers can stay after and enjoy the Science Centre. Larry asked the volunteers to wear Rotary identification if possible (vests, hats, etc.).



If anyone is still interested in volunteering, please contact Larry.

District Grants: Bob Wiens talked about District Grants and 50% of our donations towards the Paul Harris awards come back to the District and 25% of that is available for local use. He asked the Club to review the note in the Bulletin regarding the grants that can be up to \$10,000. If you are a member of a Committee, review this information to see if you can apply for these funds. President Ken commented on the multiplier impact of District Grants and noted the upcoming half day seminar on District Grants to be held at the Blackfoot Inn on Saturday October 15 starting at 8am. "There's money going for the asking. Learn how to ask."



CLUB NEWS

Sergeant at Arms: Dick Shaw showed us how it's done by first explaining the purpose of the Committee (i.e. monitoring the behaviour of the Club and punishing those who misbehave through fines) and then executing the purpose in an efficient and effective manner. First up was **Bonar Irving** who has been reporting on Health and Wellness. Dick commended Bonar for his report today but provided "constructive feedback" that comments in his previous reports about the Chair of the Committee (namely, Dick Shaw) were not appropriate and "In the future, limit your comments to the information about health and wellness". The next Rotarian under fire was **Norm Devitt**. When asked if he was having a garage sale, Norm quickly corrected Dick that it was an "Estate" sale (Good move Norm!). Dick went on to state that Norm had been advertising this sale here in the Club which is strictly verboten. The advertising fee was set at \$10 for this misdemeanor. **Norm Legare** quickly rose to his feet and advised Dick he was the one who was passing out the sale info on the tables and should take the blame. Dick was happy to fine him \$10 as well. The last Rotarian called to account was **Ken Copithorne** who reportedly got a hole in one but did not advertise this accomplishment. Dick queried whether he had in fact kicked it in the hole but was assured it was an honest one. Dick advised Ken to let the Club know about these achievements and quoted Dizzy Dean: "It ain't bragging if you done it". He concluded by fining Ken's table instead of Ken.



President Ken noted that **Bill Sumner** is now the Chair of the Stay in School Committee and former Chair **Bryan Targett** will be assisting him with the transition this Rotary year. In a different role today,

50/50 Draw: Bill Sumner announced that the pot was worth \$142.00. **President Ken** pulled the lucky ticket for **Stacey Johnson**. Congrats Stacey!



President Ken noted that the meeting was concluding a few minutes early and wished everyone a "Great Rotary Week."

MORE CLUB NEWS ...

**MUSTARD SEED AND RONALD MacDONALD HOUSE
UPCOMING DINNERS**

Dinner at the Mustard Seed: November 14

Dinner at Ronald McDonald House: November 25

Please contact Harry Pelton



NOW IS THE TIME TO APPLY FOR ROTARY YOUTH EXCHANGE

Rotary Club of Calgary South is currently recruiting for Short Term and Long Term Exchange students for the year 2017-2018. Children, Grandchildren, Nieces, Nephews and friends who have children between the ages of 15 and 17 are eligible and invited to apply.

Short Term

This is a family to family exchange coordinated by Rotary. Exchanges are usually 4 weeks in length for northern hemisphere and can be up to 8 weeks for exchanges for the southern hemisphere. All costs are the responsibility of the family, including airfare, insurance and allowance. Families are expected to reciprocate by hosting a student in your home.

For more information see <http://www.yex5360.org/short-term-exchange/>

To apply, download the application, print, complete and forward it to kevin@kevinhayes.ca

Long Term

This exchange is from August to July of the following year (2017-2018), starting September 2017. You will live with several host families and attend school. You will be able to learn another language and experience another culture.

The cost of the exchange is \$6,500. Some Rotary clubs will pay all or a portion of the fee. The fee includes airfare and accommodation & meals at orientations. Additional costs include trips and tours while on exchange as well as medical insurance. Students are not required to pay room and board or schooling while abroad.

Students will attend three orientation sessions (January, March and May) to prepare them for their exchange. Parents attend the March orientation to prepare them for the exchange and provides an opportunity for them to better understand the program

To learn more see <http://www.yex5360.org/become-an-exchange-student/>

To apply, complete the "Preliminary Application" and forward to: kevin@kevinhayes.ca

GRANTS AVAILABLE FROM THE DISTRICT

Dear Committee Chairs,

Are you looking for ways to get some additional funding to carry out your committee's mission?

The District Grants Sub Committee has a number of grants that may pertain to what you do. The deadline to access these grants is **May 11, 2017** with the cash being available in late **July 2017**.

These grants are:

District Project Grant – max \$7,500 with club contribution equivalent to 33.3%

Can be used for almost any small projects, domestically or internationally. Final report with receipts due within 60 day of completion or within 2 years.

District Scholarship Grant – max \$2,000 with club contribution equivalent to 50%

Can be apportioned into several scholarships for school leavers going to post secondary training. Final Report must include a receipt from the post secondary institution.

District Youth Grant - max \$2,000 with club contribution equivalent to 50%

Can fund travel for short term and long term exchange students, expenses related to inbound/outbound exchanged student orientation, inbound/outbound counsellor training, organization and staging of RYLA camps and school fees for exchange students. Final report with receipts due 60 days after expenditure.

Contact Bob Wiens or Don Taylor for more information.

DOING GOOD IN THE WORLD

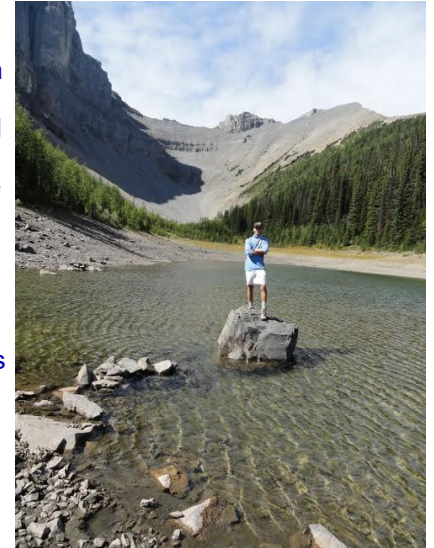


THANK YOU ROTARY'S BEST CLUB...

Over three weeks that I arrived and i feel like been here for months, thanks to all the rotarians and the rest of canadians that have recived me with open arms. I can't describe the emotions when I look at all of you working to my hapiness, I am very thankful and you all can count on me for everything, I will be always able to help you. Since I came here I hve done lots of things and some of those are: - **Go to Tim's Hortons; yes this is a big one, really good discovery of Canada.**



- Hike on the Rockies with rotarians; we went to Kananaskis by car where i got amazed with beautiful views we enjoyed with ones got better and better till make me dizzy. I was the youngest but man they were so fit, I couldn't even breathe and we walked on a really tough mud-way, it was so slippery. We finally we arrived to a pretty lake with mountains behinds sculpted by the glaciers as you can see on the picture. We had lunch there without stop observing the beautiful landscape we had in front of us. During this time, Patt and I built a bridge to a big rock 5 meters away from the shore. Not easy but we got it!



I have been also in two football games, your football... not all is perfect, just kidding I really like Canadian football and watched it was so amazing. We were lucky about the nice weather we had and the unbelievable sky with two



rainbows!

I do also like the placard in the picture, that is the reason of the picture i didn't even know the rainbow was there.



TO BE CONTINUED...

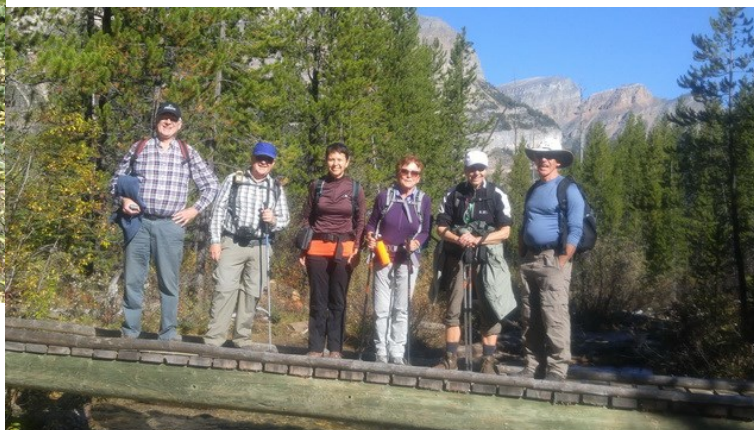


HIKING CLUB

The weather was perfect for our 4.2km hike to Stanley Glacier with an elevation gain of 365 metres. We started at 10:15am and shortly crossed the Vermillion River on a newly constructed bridge. The trail climbed through a new forest area which had burned down in 1968 and again in 2003. From the photos you can see that the deciduous trees are changing color. Also there was new snow on the surrounding mountain peaks. After about 2.4km we crossed Stanley Creek on a wooden bridge and lined up for Phil's photo. After crossing the Creek we climbed into the Glacier Basin where we had our lunch in the warm sunshine.



**On the Stanley Bridge Photo L to R:
Gord, Ted, Karen, Barb, Millie, Larry**



PARTNERS IN PRINT

PARTNERS BOOK CLUB:

Our first Book Club meeting is **Monday September 19th** at the Calgary Golf and Country Club. We will start the meeting at **9:30** sharp, please arrive with enough time to get settled.



Cheers and Happy Reading!

Kelly Brittain Book Club Chair 2016/17 403-256-1379 OR: reikiangel444@shaw.ca



ANNUAL MEMBERSHIP PARTY, BOOK SALE AND NEWS....

If anyone has any interesting photos or information from September 15th please feel free to submit anything to: kathyann@rotarycs.org

You are always welcome to submit any interesting events in your life as well

HIKERS:

Yesterday was a beautiful sunny, windless day and seven hikers enjoyed the interesting hike to Stanley Glacier.

Next Wednesday on September 21st our choice of hikes is undecided. Please contact Constance Jackson, at 403-931-4018 within the next few days, if you would like to join us before the snow falls.



Financial Literacy *for Seniors*

A three-part series exploring the challenges & opportunities facing seniors and their family members around financial management and legacy planning.

9:00 AM - Noon

Kerby Centre

\$40 + GST/session or \$105 + GST/series



- **Friday, September 16, 2016**

"Are you Listening?"

Navigating the tricky conversations of money, lifechoices, and legacy

Presenter: Trudy Pelletier - Family Dynamics Coach

- **Wednesday, October 12, 2016**

"Money Matters and the Sandwich Generation"

Ensuring customized and risk-free investments for individuals

Presenter: Gwen Becker - Wealth Advisor

- **Friday, November 25, 2016**

"Passing on Family Treasures & Values"

The legacy and social capital conversations

Presenter: Gena Rotstein - Advisor in Philanthropy

For more info, call Luanne Whitmarsh at 403-705-3251

To purchase tickets, go to www.dexterityevents.com

2016 RCCS CALENDAR: MEETINGS AND EVENTS

SEPTEMBER 2016

Sept 22 Jody Mosely: Calgary Airport Authority
Sept 29 Laverne Bissky: 3 Things You Need to Know to Change The World

OCTOBER 2016

Oct 6 **Cambodian Dancers: Place of Rescue: Cardel Theater**
Oct 13 Erin O'Conner: Calgary Film Studio
Oct 20 Dr. Jeff Keshen: Mount Royal University: Shaw Scholarship
Oct 27 Visit from District Governor Neil Berg

NOVEMBER 2016

Nov 3 Katie Von Hansen: Parkinson Alberta
Nov 10 NO MEETING DUE TO ROTARY REMEMBERS AT CARRIAGE HOUSE
Nov 11 Rotary Remembers: Carriage House Inn
Nov 14 Mustard Seed Dinner (Contact Harry Pelton)
Nov 17 Cleven Awards
Nov 24 STARS Tour: At the STARS Hangar
Nov 25 Ronald MacDonald House Dinner (Contact Harry Pelton)

DECEMBER 2016

Dec 1 Todd Hirsch: Chief Economist (ATB)
Dec 8 Bob Dubask: Myths about Reverse Mortgages
Dec 15 Christmas Luncheon: Canyon Meadows Golf Club
Dec 22 Christmas Social
Dec 29 NO MEETING DUE TO CHRISTMAS HOLIDAYS

- ⇒ MEANS MEETING AT ROTARY HOUSE
- ⇒ MEANS OFFSITE MEETING OR EVENT
- ⇒ MEANS NO MEETING
- ⇒ MEANS OTHER ROTARY INFORMATION



HEALTH AND WELLNESS: Contact Dick Shaw at: atlanticclipper@gmail.com if you know of anyone that is not well or is there anyone you know that could use a visit.



TRANSPORTATION: Contact Bonar Irving at: bonar@shaw.ca or: 403 254 8476 if you know of anyone that may need a ride to meetings

CLUB CONTACT INFORMATION

ClubRunner™
Connect. Collaborate. Communicate.

I have been training a number of people on the workings of CLUB RUNNER and would like to encourage individuals or groups to come forward and let me show you what you can do if you are interested:

Please contact me at:

kathyann@rotarycs.org

(just click this link)

or call: (403) 244 9788

to arrange this

Contact Us

Administrator: Kathyann Reginato
Rotary Club of Calgary South
L103C, 9705 Horton Road SW
Calgary AB T2V 2X5
(403) 244-9788
kathyann@rotarycs.org

Visit us at: www.rotarycs.org

2016 2017 Club Officers

President: Ken Farn: kgfarn@telusplanet.net
President-Elect: Bill LeClair: leclair@calgarylaw.com
Past President: Murray Flegel: mjf@bosslubricants.com
Secretary: Ted Rowsell: rowselle@telus.net
Treasurer: Larry Kennedy: treasurer@rotarycs.org
Partners President: Pat Farn: patfarn@telus.net

2016 2017 Directors

Club Service: Operations

Steve Mason
Email: steve@talkinglightmedia.com

Club Service: Memberships and Social

Glenn Potter
Email: agpotter@telusplanet.net

Club Service: Ways & Means

Jack Haman
Email: hamanj@telus.net

Community Service:

Luanne Whitmarsh
Email: luannew@kerbycentre.com

Community Service: Ways & Means:

Charlie Gouldsborough
Email: charlie@albertasleepcentre.com

International & Vocational Service

Bryan Walton
Email: bwalton@cattlefeeders.ca

Youth Service

Stacey Johnson
Email: sjohnson@printthree.ab.ca