



# The Lakeshore

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BE THE INSPIRATION WEEKLY BULLETIN OF THE ROTARY CLUB OF MONTREAL-LAKESHORE

Chartered February 27, 1961

## *This Week's Program...*

Our speaker will be **Tania Shand**, Volunteer Coordinator, Ste-Anne's Veterans Hospital.

## *Birthdays and Anniversaries...*

**Happy Anniversary, Bill & June, tomorrow, February 13<sup>th</sup>!**

**Happy Anniversary. Steve & Margaret...**

**....Friday, February 15<sup>th</sup>!**

**Happy Birthday, Mary Saad ..... Monday, February 18<sup>th</sup>!**

## *Future Programs...*

February is Peace and Conflict Prevention/Resolution Month.

Feb 19: **Lorena Morante**, Regional Coordinator, Encounters With Canada, and **Hanna**, a student from Riverdale High School who attended the Science and Ecology Week at EWC last April.

Feb 26: [Evening meeting] **John Belvedere**, Mayor of Pointe-Claire, will help us celebrate our club's 58<sup>th</sup> birthday and Rotary's 114<sup>th</sup>!

March is Rotary Water and Sanitation Month.

Mar 5: T.B.D.

## *Special Events...*

Mar 21: [Thursday] **Board Meeting**.

## *Last week's meeting...*

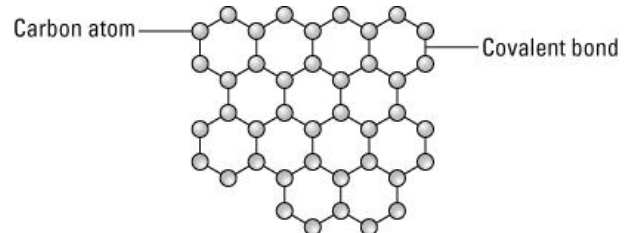
We had a good turnout of members and guests to hear **Stan** talk about graphene, a remarkable new product.

Present were: **Lawrence, Maureen, Rosie, Sacit, Esin, Stan** and **Anita, Bill and June, Sehnaz, Knud, Brenda, Cameron, Art** and **Helen, Joe Tabet, Deniz, Andy** and **Kathleen, Joe Maxell**, as well as **Martin Bussieres**.

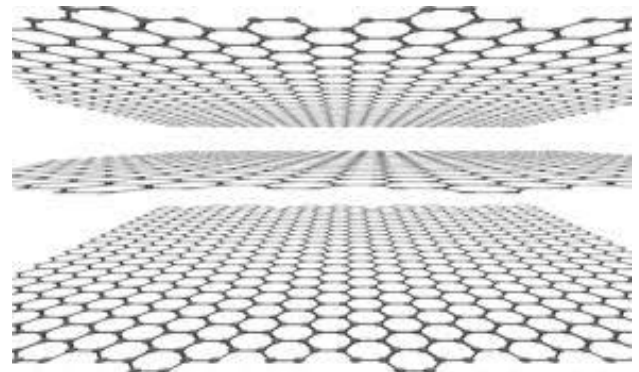
**Art** and **Helen Surette** told us they were trying to arrange a suitable date and time for members who wish can sign up to see the 2019 Gilbert & Sullivan production. Helen will send more info on this later.

[**Added later:** This year's G&S production will be **Thespis** and it will be the first time it has been done in Canada, or so I'm told.]

With the aid of a TED Talks video, Stan explained that graphene consists of a single layer of carbon atoms arranged in a hexagonal lattice., as pictured in the next column:



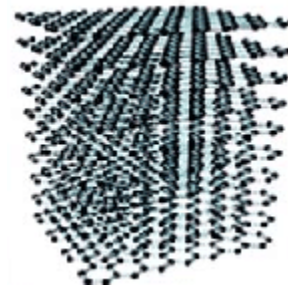
Graphene sheets can be layered, as shown below, or formed into extremely strong structures.



Graphene is an exciting material that is getting a lot of attention - especially since the 2010 Nobel prize in physics went to Andre Geim and Konstantin Novoselov, who first isolated Graphene in 2004.

There's a lot of hype about graphene's applications, thanks to a handful of remarkable properties. It's 1 million times thinner than a human hair but 200 times stronger than steel. It's flexible but can act as a perfect barrier, and is an excellent conductor of electricity. Put all of that together and you have a material with a multitude of potentially revolutionary applications.

When graphene sheets are layered, they form graphite, pictured here:



Don't be fooled by the 'apparent' size of the above 'cube'. This nano-technology and the actual size is smaller than a grain of sand.

Stan was thanked by **Cameron**.