

IMCZNEWS



APRIL 2014

EDITORIAL

Springtime

Even if the mild weather this year has given the impression that springtime has already come, the recent snowfalls were a reminder that April is the time when flowers blossom and plants celebrate the end of the cold, long winter nights. But it is not only the plant kingdom which celebrates the end of winter, the animal kingdom do so as well. The marmots come out of their holes where they have hibernated, and the bears wake up from their hibernation as well and life begins a new cycle. Humans celebrate it as well. The 21st of March is a feast in many parts of the world. Let us join the celebration and begin the new cycle with élan and determination to give, succeed, and stay both happy and healthy.

Muthana Kubba
Newsletter Editor
newsletter@imcz.com



IMCZ

Introducing...new members

THE IMCZ WELCOMES:

Tim Dawson-Townsend

Tim is originally from Michigan, but most lately from near Boston, Massachusetts, in the USA, near where he went to university at the Massachusetts Institute of Technology. He came to Switzerland last September, to open a small European office (Aurora Swiss Aerospace) for his company in the US, Aurora Flight Sciences. Aurora develops and builds unmanned aircraft systems (okay, you can call them "drones.") Before moving over, Tim helped run the research office for Aurora in Boston. Before Aurora, Tim worked for an aircraft



electronics company, as well as 10 years of active duty in the U.S. Air Force, mostly in engineering and procurement. During his Air Force time, Tim got to serve for two years as an exchange officer in Braunschweig, Germany, which helped him build up some German language skills. Tim, his wife Kathy, and children Charlotte and Trevor are now enjoying living in Cham, along with their dog Presley. In our free time, we enjoy skiing, biking, and exploring new Cantons in Switzerland.

Samir Srivastava

Samir was born in Deheradun, India and grew up in Allahabad, India (which is famous for its Khumb Mela religious festival where millions of people come to wash their sins in the holy part of the river Ganga). After finishing elementary school he moved to the USA with his parents and grew up mainly in New York and Washington DC areas on the east coast. He studied Electrical Engineering at the University of Maryland and worked professionally as a hardware engineer. He switched his focus afterwards to software engineering where he worked for different telecom companies. He moved to Switzerland in 2000 because his wife, being of Swiss origin, wanted to come back for a few years. They ended up settling here in Horgen. They enjoyed living here and think it a really great place for their two daughters to grow up. Since coming here he had worked in the Telecom industry as a network engineer until January 2014. Currently he is seeking new employment opportunities and exploring new ventures. Samir enjoys the Swiss outdoors and is active in hiking, mountain biking and cross-country skiing. He also loves sampling the Swiss Micro Breweries whenever possible.



FUTURE EVENTS

- THURSDAY APRIL 3, "A photographer's view of artists at work" presentation by *Roger Harrison*, 18:30 Park Hotel
- THURSDAY APRIL 10, ZIWC & IMCZ joint Stammtisch at ParkHotel, Zug events@imcz.com
- WEDNESDAY APRIL 16, Bowling at the White Line Bowling Centre, Meierskappel *Stephen Butterworth*
- THURSDAY MAY 8, "My Coffee Story" as told by IMCZ member *Ragnar Wetterblad* ragnar@wetterblad.com
- WEDNESDAY MAY 21, Bowling at the White Line Bowling Centre, Meierskappel *Stephen Butterworth*
- THURSDAY MAY 22, Spring New Members' Reception, Pier 41, Baarerstr. 41, Zug. *Danilo Bertocci* events@imcz.com
- WEDNESDAY JUNE 11, ZIWC & IMCZ joint Stammtisch at Park Hotel, Zug 18:30-20:30, events@imcz.com
- WEDNESDAY JUNE 18, Bowling at the White Line Bowling Centre, Meierskappel *Stephen Butterworth*
- WEDNESDAY JULY 16, Bowling at the White Line Bowling Centre, Meierskappel *Stephen Butterworth*
- WEDNESDAY AUGUST 20, Bowling at the White Line Bowling Centre, Meierskappel *Stephen Butterworth*
- SUNDAY AUGUST 24, Annual Barbecue *Siehbachsaal, Chamerstr. 24 in Zug*
- MONDAY SEPTEMBER 8, Visit to the Pilatus Aircraft Works in Stans 14:00-17:00. More details to follow.
- THURSDAY SEPTEMBER 18, ZIWC & IMCZ joint Stammtisch at ParkHotel, Zug events@imcz.com
- WEDNESDAY NOVEMBER 12, ZIWC & IMCZ joint Stammtisch at Park Hotel, Zug 18:30-20:30, events@imcz.com

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YOUR NEWSLETTER GOES PUBLIC

The board had decided to make the current Newsletter available to everyone.

Visitors to our site imcz.com can read the current Newsletter under About Us -> Current Newsletter



New Members Reception

The Spring New Members Reception this year shall take place soon.

All members, especially the new ones, are cordially invited to attend.

When Thursday May 22, 2014 starting at 18:00 hours

Where Pier 41 Restaurant, Bar at Baarerstrasse 41, 6300 Zug Tel 041 728 74 04
Weather permitting in the 'Lounge' outside, otherwise in the Lounge inside.

Who All regular members of the IMCZ are invited. Guests shall be charged CHF 35 each
The reception is meant to introduce all new members who had joined the club since the last reception on November 7, 2013 at the Casino, Zug

What Finger foods and drinks shall be served free of charge



ZIWC Spring Book Sale

The success of last October's book sale, had prompted the ZIWC to organise an additional spring book sale. It shall be held at the same location:

"Guthirt", Guthirtstr. 1, 6300 Zug
on Wednesday April 9, 2014 from 18:00 to 19:00 hours

Come along and enjoy a snack and a drink and browse through thousands of books being given away at CHF 2,00 each. Plenty of parking spaces at Metalli or the surroundings.

If your shelves are full and you have no room for new books, empty them and give all the books you have already read to the ZIWC.

Contact Rikke de Romijn at 079 754 20 29 or rikke.de.romijn@datazug.ch

REMEMBER
The Stammtisch every Thursday evening
18:00-20:00
Join us in the Park Hotel in Zug.



IMCZ BOARD MEMBERS

Board Member bios are posted under the following link: <http://www.imcz.com/Board.asp>.
Go ahead and check them out!

PRESIDENT
Andy Habermacher
078 815 8837
President@IMCZ.com

VICE PRESIDENT
NEWSLETTER EDITOR
Muthana Kubba
079 340 2592
Newsletter@IMCZ.com

SECRETARY
Adrian Luedi
079 871 7136
Secretary@IMCZ.com

TREASURER
Max Leyherr
076 272 3822
Treasurer@IMCZ.com

STAMMTISCH AND MEMBERSHIP COORDINATOR
Amit Purohit
078 620 0242
Stammtisch@IMCZ.com Membership@imcz.com

EVENT COORDINATOR
Danilo Bertocchi
079 202 4603
Events@IMCZ.com

WEBMASTER
Roger Brooks
079 583 9935
webmaster@imcz.com

Radioactive uranium in drinking water

Contributed by IMCZ member Remo P. Jutzeler van Wijlen, Head R&D Sponser Sports Food Ing. Appl Food Sciences, MAS Nutrition & Health ETHZ

Since the catastrophe at Fukushima, where several nuclear reactors were damaged (although there was no real nuclear meltdown as at Chernobyl), the fear of real and less real dangers of radioactivity have re-emerged and have been spread by the mass media without contradiction. I do not presume to discuss about nuclear technology here, but about the omnipresence of natural radioactivity, which also reveals itself in our food and water.



Probably the most well-known radioactive element is uranium because of its use as a nuclear energy fuel thanks to its aptitude for chain reaction. Uranium is found in different concentrations and forms in rock and soil, as well as in water, dependent on the composition of the native rocks through which the water is flowing. The WHO recommendation for uranium limits in drinking water was recently increased from 15 to 30 micrograms per litre. This new limit has also been proposed by the Swiss Federal Department of Health for adoption into the respective Swiss food law regulation. This recommendation is based on the hypothesis that exposure to uranium corresponding to a life-long intake of two litres of water with >10 micrograms of uranium per litre may be toxic to the kidneys. This limit has been set so low because it considers the higher water intake in relation to body weight of babies and toddlers (neglecting the fact that nobody remains "life-long" a kid;-). Nevertheless, in consequence, some

countries, such as Germany, have taken this 10 microgram of uranium per litre as the legal limit for drinking water.

One also should be aware of the fact that in Switzerland at least six communities have drinking water with >30 micrograms, and about 60 communities with >10 micrograms of uranium per litre! Unsurprisingly, these communities are mainly situated in the mountainous cantons Valais, Grisons, and Ticino. Perhaps more surprising for those anxious about radioactivity: there are no signs of higher incidence of kidney diseases or cancer of any kind amongst natives of these regions! The sheer hysteria about radioactivity becomes obvious when reading news articles or consumer protection media, which argue about excessive concentrations in mineral water. Instead of becoming aware that natural radioactivity exists and is not evil per se, analysed contents of more than 2 (!) microgram uranium per litres are scandalised. Indeed, low levels of radioactivity are probably healthy and even necessary for biological organisms in order to destroy/repair faulty DNA/gene replication. It is not a coincidence that ancient spas are situated in places of particularly high environmental radioactivity (you may remember a column of M. Kubba in this respect).

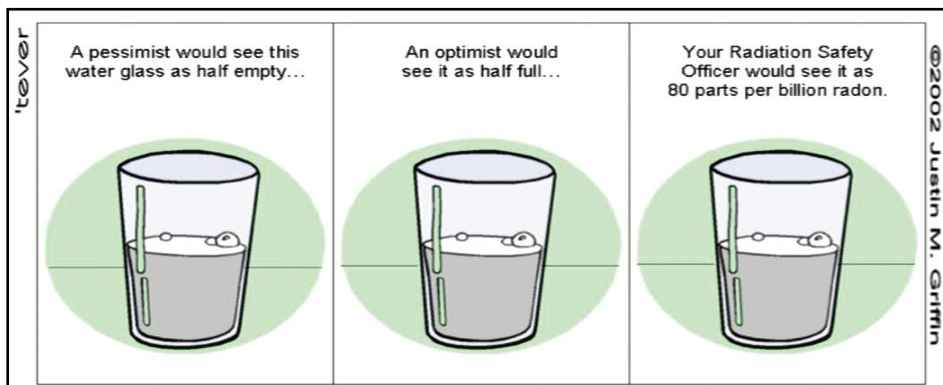
In the whole discussion about the benefits and dangers of radioactivity it is hardly ever mentioned that all assumptions are based on a linear risk model. This means it is simply presumed out of animal studies that the no-effect dose has to be a linear reduction of harmful and lethal doses down to the zero deaths line. While nobody knows if this assumption is true, a somewhat exponential dose-risk curve seems much more likely.

Furthermore, there are other natural sources of radiation, which we are exposed to and live with since mankind has settled down in any given location. For example, in mountain regions like Switzerland natural overall radiation exposure is about 2.5 times as high in Germany. Granite flagstones in our kitchen or bathroom emit radioactivity, and radioactive radon gas from the soil invades cellars and concentrates itself in a house. Radon is considered the second most cause of lung cancer after smoking. Low levels of radiation are also found in colloidal silica, a natural mineral salt compound rich in silicon dioxide, which is commonly sold and consumed as a medicine for healthy nails and hair. Its level of radiation, mainly from thorium, caesium, and radon, may vary heavily depending on the exploitation site, depth, and mineral composition.

Being aware of the remarkably different levels of everyday exposure to radiation of humans, depending on their environment, as well as the system and the safety margins applied in setting legal limits of contamination, should help to reach a somewhat more relaxed attitude towards a certain extent of radioactivity exposure. A last afterthought



helping to keep the right relation: "biologically" contaminated water, due to inadequate access to a clean water supply, kills millions of kids and adults in the short term, whereas radioactive contamination limits are set to prevent any hypothetical death from cancer during a whole human lifetime.



Flow Batteries for Bulk energy Storage

Contributed by IMCZ honorary member and Newsletter Editor Muthana Kubba

Germany is one of the most advanced countries in the generations of renewable energy, particularly wind energy. Most of the windmill farms were installed off-shore. Thanks to government subsidies and guaranteed prices, the installed capacity of the wind energy has quickly increased to become in excess of 31 GW (31000 MW). To put this figure into perspective, the total installed electric power capacity in Germany is 153.2 GW. However, in spite of this impressive figure of over 20% installed capacity, the total amount of electric energy delivered is only about 5% of the total energy consumption.

The issue at hand is fundamental to all renewable energy resources. It is all very well to invest billions of Euros, with subsidies and guaranteed prices, for wind turbines and distribution networks. However, we all know that the wind does not blow all the time, and when it blows, it is not possible to take in all the mega watts of energy being produced so quickly. It takes time to switch off conventional generating plants be they coal, gas or oil fired or nuclear. Besides, by the time some conventional power plants have been switched, off, the wind might have slackened, and the operators have to scramble to switch them on again.

Clearly, renewable energy can only be meaningfully and thoroughly utilised when bulk energy storage becomes available. Ideally, all the renewable energy sources should run at full capacity whenever the wind blows, or the sun shines for solar generation. All the energy should go into a bulk storage devices, which then the utilities use as required.

At present the only practical bulk energy storage available is the pumped water storage. Pump the water up to a high reservoir when the sun is shining and the wind is blowing. Let it down to drive turbines when demand is high and the reservoir is full. However, pumped water storage has its problems as well. To start with, the total efficiency is around 80%, which means one fifth of the energy is lost when thus stored. Additionally, it is totally dependent on topology and availability of water in sufficient quantities. On top there are several environmental issues which have to be addressed as well. Windmills can be pushed off-shore, sun panels can be installed in remote thinly populated regions, but water storage involves damming rivers and valleys, laying of pipes in pristine mountain regions and generally interfering with nature.

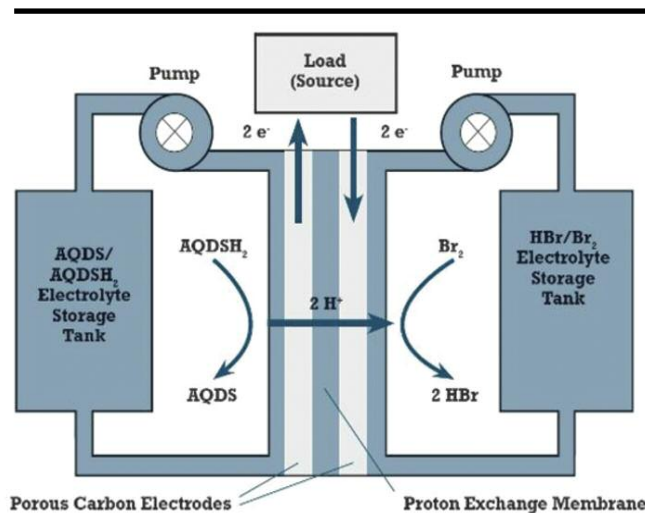
Flow Batteries

As shown in the previous section there is mounting need for an environmentally friendly way of storing energy in bulk, at affordable

cost. Only if this issue is resolved, do we stand a chance of really using alternative energies and reducing carbon dioxide emission into the atmosphere.



A new line of research at the Harvard School of Applied Sciences is being actively followed to offer a possible way for achieving this goal. The research group is focusing on a new concept of storage batteries. As is well known, storage batteries consist of two plates separated by a thin membrane of an electrolyte across which ions can be transferred reversibly for storing and generating electricity. However, if the active compounds were dissolved *separately* into the electrolyte, then we shall have a battery whose power depends on the size of the plates but the amount of energy it stores shall depend on the volume of the electrolytes. In other words the electrolytes, with the dissolved active compounds can be stored in external tanks, and huge amounts of energy can thus be stored or generated.

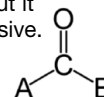


During charging H^+ is taken from HBr electrolyte on the right and driven across a Proton Exchange Membrane to be taken up by AQDS molecule to make AQDSH₂ on the left. During discharge the reactions are reversed.

The Chemistry

Theory apart, finding the right active dissolved components remains a marathon task. Cost and reliability must be right before any practical applications can be contemplated. The first flow batteries were built using vanadium redox. They use the vanadium ions in different oxidation states. However, their

high cost made them impractical for large utility-scale use. Platinum as used in fuel cells as a catalyst could also be used, but it would have been even more expensive.



The research now is focussed on a group of organic compounds known as 'quinones'. These are aromatic ring systems with carbonyl, or double-bonded carbon oxygen groups as substituents. Quinones occur naturally and are abundant in plants and crude oil, so they are basically inexpensive to extract or make. Due to their electrochemical properties they were a good candidate for the research team at Harvard. Quinones come in a very large number of varieties. Tens of thousands types of quinons are known; finding the ones with the right properties was the real challenge.

Solubility in water was a prime prerequisite for safety considerations. All batteries are stores of large amounts of energy, with potentially very damaging consequences in case of a short circuit resulting in difficult to extinguish fires. Lithium Ion batteries have caused several problems, not least of which the recent grounding of the Boeing 787 dreamliners. However, if the active components of the battery were soluble in water, such fears would not arise.

More than 10'000 possible compounds of quinones were screened for reduction potential, solubility and stability. A short list of possible candidates was drawn up and an intensive effort is underway to test them. Finally, a quinone was chosen and tested in an actual prototype flow battery. The successful candidate is called, 9,10 anthraquinone-2,7-disulphonic acid (AQDS). It is chemically very similar to a compound found naturally in rhubarb. The team published the paper in *Nature*. According to the paper the flow battery has a peak power density of 0.6 Watts per cubic cm, at a current density of 1.3 Amperes per square cm. They further claim that the overall efficiency is 99% per cycle Compared with pumped water storage efficiency of 80% this sounds almost too

good to be true. Now there is an all out effort to build and test a commercial storage plant.

It all looks very promising, let us hope that no unforeseen snags would turn up.

Further reading: [Go with the flow](#)

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**Wednesday 23 April
St. George's Day**



Cruising Cape Horn, Part 2

Contributed by IMCZ board member and Webmaster Roger Brooks with photos courtesy of ZIWC member Margareta Pfander

Puerto Montt, Chile (Tuesday)

Our first port of call was Puerto Montt, about 1000 kilometers south of Santiago. Puerto Montt was named after the Chilean President Manuel Montt. In the middle of the 19th century, he was afraid that the southern part of Chile, which was still largely inhabited by indigenous peoples, such as the Mapuche, might be occupied by European powers, so he invited immigrants from northern Europe to settle in southern Chile. The region around Puerto Montt was largely settled by German immigrants recruited by the envoy [Vicente Pérez Rosales](#), after whom the nearby National Park (which extends all the way to the Argentine border) is named.

In Puerto Montt, we had reserved places on an excursion to the Petrohué Rapids, in the aforementioned National Park. The name Petrohué comes from the Mapuche language and means "place of mosquitos". On our way to the rapids, we passed by **Lake Llanquihue**, the third largest lake in South

America. As we waited at the pier for the tender to return us to the ship, we noticed some luggage to the side. This reminded us of the plight of some fellow travelers, a Swiss couple who had been without theirs for 5 days, despite being assured day after day that it would be delivered the next day. They were so frustrated that they were about to break off their vacation and return home. On our return to the ship we invited them to our cabin for cocktails and told them what we had seen. After so many disappointments they were skeptical, but sure enough, when we accompanied them back to their cabin after cocktails, their luggage was there!

Chilean Fjords (Wednesday)

On the following day we cruised along the Chilean inside passage, which, like the Alaskan Inside Passage, provides calmer seas, sheltered from rough weather out in the Pacific, as well as glimpses in the many fjords along the southern coast of Chile. Of



Albatross above the Celebrity Infinity

called it the Strait of All Saints, because his expedition entered it on All Saints Day in 1520, but it was renamed in his honor after his death.

During our passage we were accompanied by several albatross. They circled the ship for hours, gliding without apparently effort. The albatross is impressive not only for its 2-3 meter wingspan, but also for its endurance (flying thousands of kilometers) and longevity (some living over 50 years).

We were also privileged to enjoy a tour of the engine control room. This tour was the source of much of the technical information about the Celebrity Infinity in the previous article.

In the evening we joined the Israeli couple whom we had met on the trip from Santiago to Valparaiso for a sumptuous dinner in one of the ship's specialty restaurants, the S.S. United States. The restaurant is a tribute to the luxury liner of the same name, which was built in 1952 as a joint effort between the U.S. Navy and the United States Lines to be the safest ship ever and to capture the transatlantic speed record, which it retains to this day.



Petrohué Rapids

particular interest in the Chilean inside passage is the Brüggeren or Pio XI glacier, which is one of the few glaciers worldwide which is advancing instead of receding. Unfortunately, our route did not take us close enough to see it.

America. However, the trip was a bit disappointing, as weather conditions prevented us from catching the hoped-for glimpses of the two snow-capped, but active, volcanoes in the region: Osono and Cabalhueca. However, given that the region is notorious for its damp weather, we were fortunate enough that the rain was light and mostly limited to the time we spent on the bus. After viewing the rapids (which were quite crowded with tourists), we enjoyed a local cocktail, the priska sour, and a salmon lunch accompanied by local wine in the neighboring town of Puerto Varas. The German influence was clearly visible here: We were not only served "Kuchen" for dessert, we also saw houses in Riegelbau, Landhaus and chalet style. After lunch, we had a few minutes off to buy trinkets and mail postcards before returning to the ship.

Strait of Magellan (Thursday)

On the fifth day of our voyage, we entered the Straits of Magellan, which effectively form the southern edge of the South American land mass. There is still much land to the south which belongs to South America, but all of it consists of islands. Ferdinand Magellan, a Portuguese captain, discovered the strait during his circumnavigation of the world, which was commissioned by the Spanish king, Charles I (later known as Holy Roman Emperor Charles V) in order to find a westerly trade route to Asia. Magellan originally



Engine Control Room of the Celebrity Infinity



Punta Arenas, Chile (Friday)

The 6th day of our voyage marked the first of several disappointing changes in our itinerary. We had planned to go ashore by tender, since the ship was too large to dock in Punta Arenas. Although we arrived at our intended port of call for the day, Punta Arenas, in sunny weather, the winds were already high, with gusts up to 50 knots, and expected to increase to 60 knots in the course of the day. These weather conditions would have made tendering difficult, if not impossible. Out of respect for our safety, the Captain, Michael Sympouras, reluctantly cancelled our port visit. His decision was confirmed by the closure of the port some ten minutes after our departure. While it might have been possible to put some passengers ashore, it would have been impossible to return them to the ship under the worsening conditions later in the day, leaving them stranded in an area which lacks overnight accommodations for so many visitors. Furthermore, waiting for better conditions to return them to the ship would have severely impacted our remaining itinerary. Our early departure from Punta Arenas permitted us to enter the Beagle Channel (named after the famous ship which carried Charles Darwin around the world) around dusk, instead of early the following morning, as was originally planned. As a result, more passengers were awake to view the glaciers which we passed by, but the light for photography was not so good.

Next month: The End of the World



Punta Arenas, Chile



Glacier seen from the Beagle Channel

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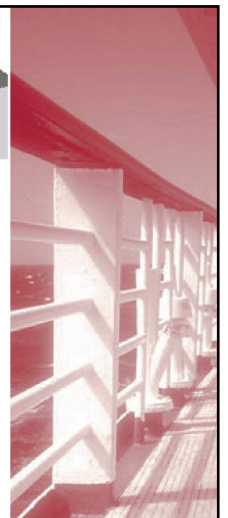
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RETURN to St. MORITZ

Spectacular Sunshine & Great Spring Snow Conditions in the Engadin Valley

Contributed by IMCZ sports' editor Joseph Dow



After highlighting the spectacular Zermatt area, last month, I decided to revisit skiing in famous St. Moritz on the other side of the country in Graubünden. Along with Zermatt, Verbier, Jungfrau and Davos, St. Moritz is amongst the top world class resorts in Switzerland. As you may remember, our club took a group to St. Moritz a few seasons ago and had a wonderful experience (see *IMCZ Newsletter – February 2012.*)

Since moving to Zug, I have noticed that St. Moritz, with its high-altitude location and unique “champagne climate,” always has the best snow conditions and consistent sunny weather, especially later in the season. St. Moritz has an unbelievable sunshine record averaging more than 300 days per year. When I go to ski in St. Moritz, I make sure to bring goggles with a special high-altitude, black lens because of the ever-present bright sun.

Like all great resorts, St. Moritz also has fabulous scenery with some famous peaks. The most beautiful are Piz Bernina (4'049m), the most easterly peak higher than 4'000m in the Alps and highest point in Graubünden; the unique “ice cream cone” Piz Roseg (3'937m); and Piz Nair (3'056m) above the Corviglia area.

The two large alpine ski areas around St. Moritz surround the town with Corviglia above St. Moritz Dorf to the northwest and Corvatsch, on the other side, down the valley from St. Moritz Bad. Diavolezza, near Pontresina, is also nearby, and I will cover that area, which has excellent late-season conditions, in the next issue. The main part of St. Moritz, Dorf, lies at 1'856m. It is quite easy to get to Corviglia from either Dorf or Bad and Corvatsch can be reached by the bus through nearby Silvaplana. For good skiers, it is also possible to ski back down to Bad from Corvatsch on an easy black run.



The Skiing

The Areas

- Corviglia Marguns/ Piz Nair** – The largest ski area in the Engadin sprawls across the mountainside right above St. Moritz with 34 pistes providing 163 kilometres of skiing. It is a very sunny area and has nicely-groomed pistes, known as the “White Carpet,” first thing in the morning. Many of the runs are perfect cruisers with just enough pitch to provide exhilaration without too much challenge. The runs in front of Piz Nair, serviced by the three chairs (Randolins, Alp Giop and Salastrains,) offer the option to rack up the runs in a very efficient manner. The tram will take you high up to Piz Nair and you can ski “over the top” all the way around and down to Celerina. Skiing down from Piz Nair takes you by some interesting rock formations and gives you the sense of being on a ski odyssey. You can extend the experience using the Lej da la Pesch, Glüna and Fuorcia Grischa chairs to do some additional runs on your way down. The area between Marguns and the top of the funicular from Chantarella is the busiest area and offers some wide-open slopes with a lively atmosphere.
- Corvatsch/ Furtschellas** – This area is a bit steeper than Corviglia but is still quite accessible to the regular skier with lots of good cruising terrain. The Corvatsch area offers 25 pistes totaling 120 kilometres. You can ride up to 3'303m on the top of Piz Corvatsch for some of the steepest skiing in St. Moritz with magnificent views of the major peaks. The runs below the Mittelstation and in front of Piz Corvatsch offer some opportunities for high-speed skiing, especially on red piste #10 Chastelets, down to the Alp Surlej chair. If you continue away from the Corvatsch towards Sils-Maria, the Furtschellas area is less crowded and provides more quality cruising terrain.

Connections:

It is slightly easier to ski both areas if you are based in St. Moritz Bad, but skiers need to take a short bus ride to get to Corvatsch from either part of the town. At the end of the day, you can easily ski back from both areas to Bad. If you start the day at Corvatsch, you can ski there and then drop into Bad using the black piste #5 Hahnensee from the top of the Giand' Alva chair, cross the street to the Signalbahn that takes you up to ski Corviglia and head back down to Dorf (or again back down to Bad.)

Views/ Scenery

Piz Bernina and Piz Roseg

These magnificent peaks located next to each other can be viewed from both Piz Nair and from the top of Corvatsch. Piz Bernina boasts a distinctive long, snow-covered northern ridge, called the *Biancograt* and Piz Roseg's north-west summit, the *Schneekuppe*, is a gorgeous snowy pyramid akin to the Silberhorn on the Jungfrau.



Places to Stay

St. Moritz has a great variety of accommodations, in both St. Moritz Dorf and St. Moritz Bad. Dorf is livelier, but Bad is a good location for best accessing the slopes of both areas. Here are some hotels at which I've stayed and recommend:

- **Art Boutique Hotel Monopol**** in Dorf:** Located in the center of town, this boutique hotel is very comfortable with its delightful spa, *Wellavista*. The spa is up on the sixth floor, overlooking the town with fantastic views from its terrace and panorama windows. monopol.ch
- **Hauser's Hotel*** in Dorf:** This smart hotel is also in the center of town and was the hotel where our IMCZ group stayed in 2012. Their "Poida" dinner (*described in the Feb. 2012 article*) is not to be missed. www.hotelhauser.ch
- **Hotel Laudinella*** in Bad:** This updated hotel in Bad is excellent, and I have stayed there many times. It has a diverse choice of six restaurants located within the hotel. www.laudinella.ch
- **Kempinski Grand Hotel des Bains***** in Bad:** This premium luxury hotel has a very special location at the edge of Bad. The Signalbahn tram at Corviglia is right across the street, and guests can essentially ski right back to the hotel from both Corviglia and Corvatsch. www.kempinski.com/en/st-moritz/grand-hotel-des-bains/welcome/

Food & Drink on the Mountain

Here are a few options on the mountain, during the ski day:

- **Panoramarestaurant 3303 at the Corvatsch Bergstation:** This restaurant at the top of Corvatsch has good food and fantastic views.

- **La Chüdera at Furschellas Mittelstation:** A cafeteria restaurant with a nice atmosphere and decent food, including terrific Rösti and gourmet sodas.
- **Piz Nair:** This restaurant at the top of Piz Nair has gorgeous views of Corvatsch and Piz Bernina and Piz Roseg. They serve the fine, local Piz Palù bier.
- **Mathis Food Affairs at Corviglia:** This cafeteria restaurant at the top of the funicular is quite crowded with surprisingly limited seating for a restaurant with such a central location, but the food is quite good.

Good Time to Visit St. Moritz

As a top destination, St. Moritz can get quite crowded. So, given its excellent late-season snow record, I like to visit St. Moritz during the latter part of the season, in late March and April. So, I would suggest you also go there, right now!

For more information:

Engadin St. Moritz Tourism: www.engadin.stmoritz.ch

Corviglia: www.engadin.stmoritz.ch/winter/en/activities/sports/skiing-snowboarding/corviglia-skiing/

Piz Nair OVER THE TOP: www.piznair.ch

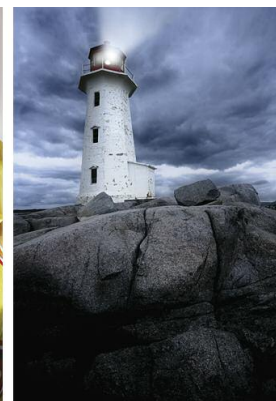
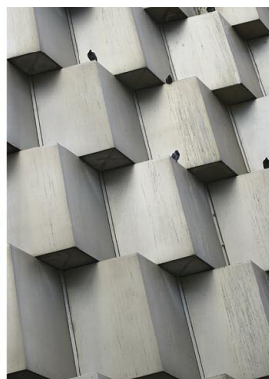
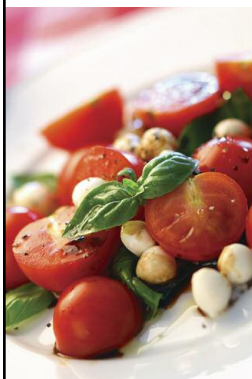
Corvatsch 3303 Top of Engadin: www.corvatsch.ch

Next Month: Diavolezza near Pontresina



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Stars and Super Speeds

Organised and compiled by IMCZ member Stephen Butterworth

There was a great turn out at this month's event. Hopefully this is a sign of things to come. Altogether 18 participants turned up including several from the ZIWC.

At 38.3 Km/h Henry Park became the undisputed King of Speed, as documented by the screenshot of the speed display. Any faster and the IMCZ might get a bill for burning a hole in the lane.



The second star was Amit Purohit with some great bowling to beat all the other stars and take away the wine for the IMCZ. Helen Williams for the Ladies of the ZIWC took away the bottle of wine. The third star was Sameera Purohit who soon ramped up from a low start the 2nd and 3rd games being very consistent - a sign of things to come.....

Not so many strikes by anyone but a lot of Splits over 50 in all for everyone!

We had four guests and two possible IMCZ members to come and regular bowlers to boot a great night. With a slight adjustment to the handicapping for new players the results are made much closer between positions 3 and 8 there are not that many pins.



First Name	Surname	Game1	Game2	Game3	Bowled total	overall_avg	handicap	STRIKES	SPARES	Split
Otto	Steuri	126	143	163	432	146	44	4	15	1
Art	Seibel	149	142	135	426	142	47	5	11	3
Beat	Züger	145	130	133	408	140	48	6	8	4
Gary	Boshoff	104	147	119	370	98	82	5	9	4
Hans-Peter	Schobert	105	138	104	347	117	67	2	7	8
Amit	Purohit	113	125	100	338	100	80	3	6	3
Stephen	Butterworth	125	96	116	337	116	68	2	9	3
Henry	Park	100	135	96	331	107	75	4	7	2
Adrian	Lüdi	118	101	110	329	110	72	2	7	4
Shearl	Seibel	86	98	143	327	109	73	4	6	2
Helen	Williams	104	114	104	322	98	82	2	7	3
Meier	Janis	96	120	97	313	126	60	1	7	4
Derek	Seibel	126	96	87	309	139	49	3	7	1
Ilham	Yuksel	88	87	91	266	98	82	3	3	
Laurette	Boshoff	89	73	103	265	93	86	2	6	2
Gail	Brenton	86	85	89	260	85	92		6	4
Sameera	Purohit	37	70	69	176	98	82			7
Jokela	Jorma	66	56	51	173	98	82		4	1

First Name	Surname	Game1	Game2	Game3	Handicapped	overall_avg	handicap	STRIKES	SPARES	Split
Gary	Boshoff	104	147	119	616	98	82	5	9	4
Amit	Purohit	113	125	100	578	100	80	3	6	3
Helen	Williams	104	114	104	568	98	82	2	7	3
Art	Seibel	149	142	135	567	142	47	5	11	3
Otto	Steuri	126	143	163	564	146	44	4	15	1
Henry	Park	100	135	96	556	107	75	4	7	2
Beat	Züger	145	130	133	552	140	48	6	8	4
Hans-Peter	Schobert	105	138	104	548	117	67	2	7	8
Shearl	Seibel	86	98	143	546	109	73	4	6	2
Adrian	Lüdi	118	101	110	545	110	72	2	7	4
Stephen	Butterworth	125	96	116	541	116	68	2	9	3
Gail	Brenton	86	85	89	536	85	92		6	4
Laurette	Boshoff	89	73	103	523	93	86	2	6	2
Ilham	Yuksel	88	87	91	512	98	82	3	3	
Meier	Janis	96	120	97	493	126	60	1	7	4
Derek	Seibel	126	96	87	456	139	49	3	7	1
Sameera	Purohit	37	70	69	422	98	82			7
Jokela	Jorma	66	56	51	419	98	82		4	1

Definitions

Cigarette:

A pinch of tobacco rolled in paper with fire at one end and a fool at the other!

Marriage:

It is an agreement wherein a man loses his Bachelor Degree and a woman gains her Master.

Lecture:

An art of information transmission from the notes of the lecturer to the notes of students without passing through the minds of either.

Conference:

The confusion of one man multiplied by the number of people present

Compromise:

The art of dividing a cake in such a way that everybody believes he got the biggest piece.

Tears:

Are the hydraulic force by which masculine willpower is defeated by feminine water-power.



Conference Room:

A place where everybody talks, nobody listens and everybody disagrees later on.

Ecstasy:

A feeling when you feel you are going to feel a feeling you have never felt before.

Classic:

A book which people praise, but never read.

Smile:

A curve that can set a lot of things straight!



Office:

A place where you can relax after your strenuous home life.

Yawn:

The only time when some married men ever get to open their mouth.

Experience:

The name men give to their mistakes.

Diplomat:

A person who tells you to go to hell in such a way that you actually look forward to the trip.

Optimist:

A person who while falling from Eiffel tower says in midway, "See I am not injured yet".

Miser:

A person who lives poor so that he can die rich!

Father:

A banker provided by nature.

Boss:

Someone who is early when you are late and late when you are early.

Politician:

One who shakes your hand before elections and your confidence later on.



Shopping Mall

An older man approached an attractive younger woman at a shopping mall.

"Excuse me; I can't seem to find my wife. Can you talk to me for a couple of minutes?"

The woman, feeling a bit of compassion for the old fellow, said, "Of course, sir. Do you know where your wife might be?"

"I have no idea, but every time I talk to a woman with boobs like yours, she seems to appear out of nowhere."

Speechless

In an exchange between Churchill & Lady Astor: She said, "If you were my husband I'd give you poison," to which he replied : "If you were my wife, I'd drink it."



"He has all the virtues I dislike and none of the vices I admire." - **Winston Churchill**

"A modest little person, with much to be modest about." - **Winston Churchill**

"I am enclosing two tickets to the first night of my new play; bring a friend.... if you have one." - George Bernard Shaw to **Winston Churchill**

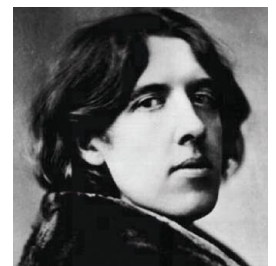
"Cannot possibly attend first night, will attend second... if there is one." - **Winston Churchill**, in response.

"He has never been known to use a word that might send a reader to the dictionary." - **William Faulkner (about Ernest Hemingway).**

"Poor Faulkner. Does he really think big emotions come from big words?" - **Ernest Hemingway (about William Faulkner)**

"He uses statistics as a drunken man uses lamp-posts... for support rather than illumination." - **Andrew Lang (1844-1912)**

"Some cause happiness wherever they go; others, whenever they go." - **Oscar Wilde**




REMEMBER
The Stammtisch every
Thursday evening 18:00-20:30

Join us in the Park Hotel in Zug.



Contributed by IMCZ member, Ian Stansfield

All web sites included in this series are offered in an unbiased way and do not necessarily reflect my personal views or those of the IMCZ; the reason for bringing them to your attention is that I found them interesting and informative, perhaps offering an alternative point of view, but above all else definitely worthy of note.

Changing World

How do we See Gravitational Waves - Contributed by Roger Brooks

http://spectrum.ieee.org/tech-talk/aerospace/astrophysics/how-do-you-see-gravitational-waves/?utm_source=techart&utm_medium=email&utm_campaign=032014

Kick Starting the Universe

<http://www.space.com/25075-cosmic-inflation-universe-expansion-big-bang-infographic.html>

Genesis, the first book of Moses - <http://www.bartleby.com/108/01/1.html>

Deer-Spotting Diodes - Contributed by Roger Brooks

<http://spectrum.ieee.org/green-tech/advanced-cars/bmw-laser-headlights-slice-through-the-dark/deer-spotting-diodes>

Active Parking Assistant <https://www.youtube.com/watch?v=tkBcw0gqOUY>

Tesla Cars <http://www.teslamotors.com/gallery>

Interview with Elon Musk - founder of Tesla

<http://www.cbsnews.com/videos/tesla-and-spacex-elon-musks-industrial-empire/>

Do our brains age? <http://www.the-scientist.com/?articles.view/articleNo/31060/title/Secrets-of-Aging/>

It always seems to me that we are living in science fiction. 11,000 years ago we invented agriculture and religion. The first practical steam device, a water pump, was invented in 1698. One of my earliest memories is as a 5 year old child, in 1969, I remember the first landing on the moon. Almost every day a major advancement in science and technology is made. In March several people told me how gravitational waves had been detected. The first 2 links are about this phenomenon. Until this event happened there was no light! Just like in Genesis, the first book of Moses (Thought to have been composed about 600 BC – not that long ago). All this rapid advancement filters through to us in many ways. Tesla cars are really moving us towards a different world. Very soon there will be a commercial version of a car that detects living objects in the path of a moving car. These warn the driver and even prepare the car for breaking. For us married gentleman there is another cost saving item that is already available, please see the 5th link. Growing old and dying is not so worrying but becoming senile is terrifying. The last link mentions a study in Sweden that monitored a group of Centenarians, until they died. The oldest lived to 111 years and 73 percent were dementia free to the end of their lives.

Monopoly

Luxottica - CEO interview

<http://www.cbsnews.com/news/sticker-shock-why-are-glasses-so-expensive-07-10-2012/>

Google Glass to partner with Luxottica

<http://www.forbes.com/sites/afontevicchia/2014/03/25/google-glass-ray-bans-partnership-with-luxottica-makes-founder-del-vecchio-700m-richer/>

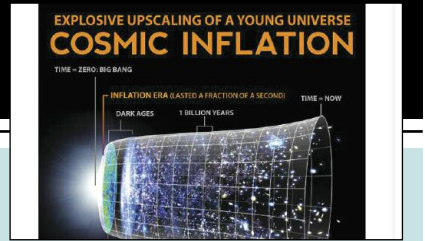
The pros and cons of a Monopoly https://economicsonline.co.uk/Market_failures/Monopoly_power.html

The Daguerreotype Photographic Process <http://www.photohistory-sussex.co.uk/dagprocess.htm>

The French Government buy the Patent for Photography

<http://www.geog.ucsb.edu/~jeff/115a/history/daguerre.html>

Last month I had to go for a new prescription for my glasses. The eye doctor charged me 440 CHF and the optician charged me 998 CHF just for the lenses. It is now a month later and after several visits to both optician and eye-doctor I still do not have a satisfactory prescription. The interesting thing is the cost. Lenses cost almost nothing to produce. I was looking up on the internet about consumer protection in Switzerland, when I came across a report that an Italian company has monopolised the market for spectacles. I always thought that mass production would reduce the price of items, but I am not so sure any more. It doesn't seem to be the case with glasses. Google glass will be the next must have accessory. Guess who they have just partnered with? I also found a site that evaluates the benefits and disadvantages of a monopoly (See the 3rd link). Photography would be very expensive if the French government had not bought the patent. When something is so obviously beneficial to everyone wouldn't it be better for us all to benefit from it? Elon Musk wants to make a more affordable version of his car. He's doing it by building a Lithium ion battery factory that is bigger than all the other factories put together. He's also implementing free charging stations for his cars, which he hopes will one day be solar powered.



Deer-Spotting Diodes

Even good old LEDs can do wonders with the help of an algorithm or two

Night falls hard at BMW's Aschheim test track, a flat, lonely outpost in the Bavarian boonies east of Munich.

"The first 30 times I saw this place, it was night," mutters BMW engineer Dominik Schneider.

I'm riding shotgun in a BMW 7 Series sedan with Schneider and his



How Do You See Gravitational Waves?

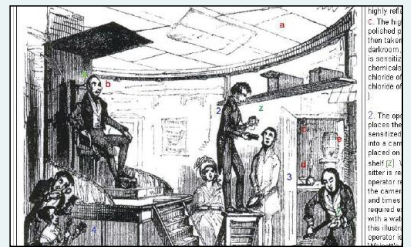
By Rachel Courtland
Posted 18 Mar 2014 | 16:19 GMT



Daguerre



In the early part of the 19th century Daguerre created the first photographic plates. It consisted of a thin film of polished silver on a copper base. The silver surface was sensitized by putting it in a container with iodine. The iodine vapour reacted with the polished silver surface and formed a thin yellow layer of silver iodide. After a photograph was taken on the plate, it was developed by exposing the plate to magnesium vapor at 50 degrees C. The vapor would only stick to the parts of the plate which had been exposed to the light. The plate was then dipped in sodium thiosulfate to dissolve the unexposed silver iodide and then rinsed in hot water. Daguerre's plates, as these images were called, had the ability to capture this detail for, due to their long exposure time they were considered to produce



Forbes - New Posts Popular Lists Video
Google Glass Ray-Bans? Partnership With Luxottica Makes Founder Del Vecchio \$700M Richer
In its continued attempts to make the nerdy Glass cool, Google has partnered with Italian eyewear powerhouse Luxottica to design "innovative iconic wearable devices." The world's largest producer of sunglasses has pledged to include its

Monopoly power
A pure monopoly is defined as a single supplier. Unlike there only a few cases of pure monopoly, monopoly power is widespread and can exist even when there is more than one supplier – such in markets with only two firms, called a duopoly and an oligopoly.
According to the 1998 Competition Act, abuse of dominant power means that a firm can behave independently of competitors. See Competition Act.
For the purpose of controlling mergers, the UK regulators consider that if two firms combine to create a market share of more than a specified amount, the merger may be 'of interest' to the Competition Commission, and may be prohibited.
Monopolies are formed under certain conditions, including:



Members' Marketplace

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- 1/4 Page, A6 vertical (9.2 x 13.5 cm), Fr. 60.-
- 1/4 Page, horizontal (19 x 6.9 cm), Fr. 60.-
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Wine tasting – BAROSSA DAYS at the Parkhotel Zug



BAROSSA DAYS

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from 4^{pm} to 10^{pm} with over 60
 top-wines from Australia, New
 Zealand, South Africa, Argentina,
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 at the Parkhotel Zug (Industriestrasse 14, Zug).

The Weber-Vonesch team is looking forward to
 welcoming you!

www.getraenkezug.ch


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