

IMCZNEWS



SEPTEMBER 2014

EDITORIAL

letters to the editor



I had always wished that our Newsletter should include a 'Letters to the Editor' column. At last, and thanks to our Sports' Editor, Joseph Dow, the column has taken off. I like to invite all members to take advantage of it and use it. Just send me your letter or email, and it shall be published with minimal editing. There is so much to write about, suggestions, complaints, viewpoints, the door is fully open. The only taboos the editor recognises are politics and religion. They should be avoided in order not to start unnecessary arguments.

Looking forward to receiving your letters or emails.

Muthana Kubba
Newsletter Editor
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IMCZ

Introducing...new members

THE IMCZ WELCOMES:

Andrew Schofield

Andrew grew up in the North of England before Studying Electrical Sciences at Churchill College, Cambridge. After marrying his high school sweetheart, Gill, he worked for two years at the U.K. government's Mining Research and Development Establishment in the Midlands. During the U.K.'s "Winter of Discontent" he took a job at the original "Landis&Gyr" in Zug. The contract was for three years but he and Gill are still here 36 years later. They have three grown up daughters: Jennifer, Sarah and Christina, all now in the U.K. After leaving Landis&Gyr, Andrew developed software for various international computer companies and start-ups. For the past four years Andrew has worked as a freelance software developer and is currently on assignment at Siemens AG in Zug – very conveniently located for the Thursday "Stammtisch". Andrew enjoys leisurely bike rides, badminton, skiing and tinkering with technology.



Christian Schuler

Christian was born in the town of Schweinfurt/Germany in North Bavaria, famous for inventing the ball bearings. Before starting school he spent three years in the USA accompanying his father who was posted there to work for a leading ball bearing company. Although he had a passion for electronics and computers during his schooling years, he opted to study chemistry instead and went to both Bayreuth and Mainz universities. After four years work on cutting edge research in nanotech polymers, he left chemistry behind with a PhD to start a new carrier and joined a young software company, Framesoft AG. In 1999 the company moved its head office to Zug and he took the opportunity to become part of the newly formed base technology development team there. Luckily, his wife Annika managed two years later to move from Frankfurt to Zug as well, so he is now well anchored here. Besides reading and meeting friends, Christian likes hikes and long walks enjoying the great landscapes in Switzerland.



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FUTURE EVENTS

- MONDAY SEPTEMBER 8, **Visit to the Pilatus Aircraft Works** in Stans 14:00-17:00. More details to follow.
- WEDNESDAY SEPTEMBER 17, **Bowling at the White Line Bowling Centre**, Meierskappel *Stephen Butterworth*
- THURSDAY SEPTEMBER 18, **ZIWC & IMCZ joint Stammtisch** at ParkHotel, Zug *events@imcz.com*
- MONDAY OCTOBER 27, **Fresh Water Plant visit**, Zug, 18:30-19:45, *events@imcz.com*
- WEDNESDAY NOVEMBER 12, **ZIWC & IMCZ joint Stammtisch** at Park Hotel, Zug 18:30-20:30, *events@imcz.com*
- SATURDAY 13TH DECEMBER, **ZIWC & IMCZ Christmas Dinner in Casino**, *events@imcz.com*

Nations Festival Fest der Nationen



INVITATION

The Migration Office of Canton Zug (FMZ Fachstelle Migration Zug) celebrates its 50th anniversary and invites all members to come this festival, to be held on Saturday September 6, 2014 at Landsgemeindeplatz in Zug from 14 till 22 hours.

Selection of foods, Music from all over world, dancing, theatre performances.

Check for full details at <http://www.fest-der-nationen.ch>

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



The Annual Barbecue Party



On slightly overcast skies but with pleasant temperatures, the crowd at Siehbachsaal grew steadily and finally reached 69 including 10 from the ZIWC, all determined to have a wonderful Sunday with lots of fun, and of course good food.

Talking of food, the team from Gourmindia were already assembled in force, fully equipped and prepared. The Club certainly scored an all time first in offering Indian food on a Barbecue instead of the standard grill stands. By all accounts it was a great success. One member described it so, "The food was sublime, the caterers were very professional, nothing was too difficult for them, Indian ornaments, table cloths, Tandoori oven onsite, lots of staff. Bollywood Music, dancers, dance instructor (all from Munich) were inspirational. All the members, partners, children and chefs were entranced and almost all joined in the practical lesson on Indian dancing."



Yes, even dancing was catered for. There were the usual raffles with generous prizes. Adrian won the golfing prize and Ian (Stansfield. There are at least five Ians in the Club) won a fine silk tie. Whilst enjoying a sip of fine white Italian wine, 'Prosecco', our President Andy gave his usual speech on this annual occasion to the applause of the audience.

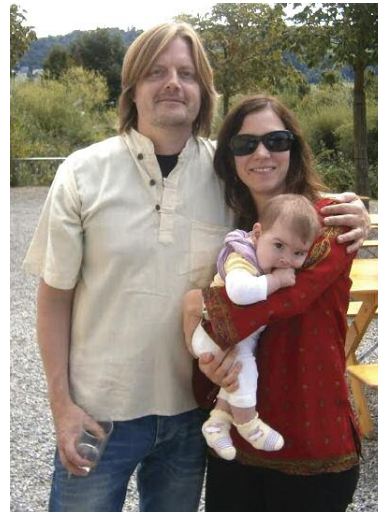


The organisation was perfect and the division of tasks immaculate. Max was everywhere, making sure that each and every guest wore a wristband. Roger, Tracey and Ian looked after the bar, and Adrian provided the cards for the memory game courtesy of the UBS.

It was a superb day, with many people sitting outside under glorious sunshine eating their Indian lunch served from a generous buffet. The food was more than adequate and the caterers served even Indian beer, branded 'Kingfisher'.

Indeed, it was a very enjoyable and entertaining day, and everyone seems to have had lots of fun.

Well done to all the organisers and volunteers. Special thanks to Danilo and Amit for their tireless work, dedication and attention to fine detail.

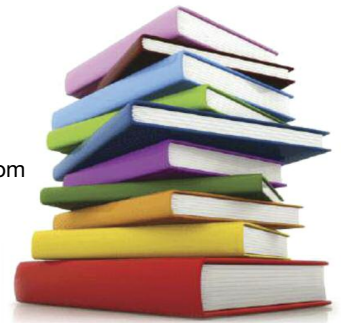


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ZIWC Autumn Book Sale

Once more this year the "Service Publique" of the Library Committee in the ZIWC is on again. The next book sale has just been announced. It shall be held at the same location: "Guthirt", Guthirtstr. 1, 6300 Zug on Wednesday October 1, 2014 from 16:00 to 19:00 hours. 5 minutes walk from Zug main Railway Station. Parking available at Metalli next door. Come along and enjoy a tea with scones generously offered by the ZIWC Business Group, catch up with friends and browse through thousands of books being given away at CHF 2,00 each. 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 Ms Alison MacKinnon at jones.ian@bluewin.ch



Bright future of biodegradable food packaging?

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



Plastic materials are omnipresent in our daily life. This is also true regarding food packaging, and nowadays virtually everybody is aware of its negative ecological implications (e.g. petroleum demand, plastic contamination in nature, accumulation of microparticles in the food chain). However, the plastic and packaging material industry has already developed valuable alternatives, yet to be scaled up for use as industrial standards. Of course, the advantages of plastic materials, such as formability, heat stability, gas tightness, and inertness to packaged food and drinks, shall be kept, but at the same time the carbon footprint should be diminished (renewable resources), and the material should be made biodegradable or at least recyclable.

A bioplastic already in use is polylactic acid (PLA) produced from corn, potato, or tapioca starch. Also, a polyethylene is now available, which is derived from sugar cane. Hitherto, there are some major limitations to its use. PLA is not as heat tolerant as PET and less gastight. Therefore it can neither be used for pasteurised liquids, nor for carbonated water. Barrier layers of e.g. aluminium are realistic solution scenarios, but obviously this will again compromise sustainability and biodegradability. Nonetheless, such PLA foils can already serve as adequate substitutes for the plastic packaging of fresh fruits and vegetables. However, another disadvantage yet to be approached is its "industrial" biodegradability. PLA needs to be composted

at constant temperature in a controlled bacterial milieu. It is not home-compostable yet.

Future development needs to improve barrier function while maintaining/improving biodegradability and suitability for recycling. The trend is toward spraying films of aluminium or silicon dioxide as the inner layers of food packaging. Depending on the needed barrier function, such a spray layer can still be made biodegradable, because it does not constitute a molecular net. However, aluminium and silicon are of course already heavily demanded resources in various industries (e.g. solar and digital technology). Further demand challenges the environment in other ways, for example in the mining industry and in our energy demand. Another important issue is the migration of harmful substances into food, which demands proper barrier function of food packaging materials. I outlined the health risks of mineral oil based ink previously. Furthermore, migration of flavours and odours from the environment into packaged food have to be prevented, at least in long-lived foods and liquids.

Last but not least, consumer awareness and acceptance of the higher costs for environment-friendly packaging is also a crucial factor. Higher costs are not only due to the manufacturing or sourcing of such new materials, but



also to the concomitant (and necessary) certifying industry to test, grade and approve biodegradability and/or compostability.

The use of recently developed compostable packaging material is on the rise and has a very promising future. Nonetheless, I advise some scepticism: will this approach still be ecologic when it becomes an industrial standard? How much corn, potato, tapioca, or cellulose (from wood) can we ecologically produce and/or recycle, when food and non-food plastic packaging is substituted by biodegradable plastic materials? We will probably just exchange the problem of environment protection for one of sustainability of (renewable) resources. There is also an ethical issue insofar as crops cultivated for packaging material could also be used as staple food for starving people. The "inconvenient (and somewhat misanthropic) truth" is that there is just too much of our kind...



The pros and cons of driving an Electric Car

I read about population growth, energy demand, greenhouse gases (GHG) increase, global warming, arctic ice melting, sea level rise, oil depletion, deforestation and oil exploration and production. All this and the lower capital expenditure returns could convince me to swap for an electric powered car. To reach a decision, I had to make comprehensive analyses in four steps:

In 2003 an ambitious project to produce 100% electric powered vehicles was announced by Mr. Elon Musk. The South African born entrepreneur was only 32 years old then. The multi-millionaire young man was the co-founder of PayPal and SpaceX. Five years later in 2008, Mr. Musk and his team of engineers had sold 1000 Tesla Roadsters (sale price of US\$ 100'000 a piece) to Hollywood environmentalists and other wealthy US utopian drivers.



In 2009, Prince Albert of Monaco, F1 driver Damon Hill and Bono the U2 singer had all ordered their Tesla Roadsters: zero emission, 100 km/h in 3.7 seconds, 340 km range and to top it all: no noise. The Seven-up?

I liked the idea of having an electric vehicle, but the economics and practicalities of 'plugging in' often seem prohibitive. Before taking a decision, I made a four step holistic analysis which provided me with a complete overview of all my EV options:

I Vehicle analysis: In order to be able to reach a viable and informed decision as to which vehicle to buy, I needed to make a complete picture of alternative fuelled vehicles. Currently, there are 3 different electric-based technologies:

Battery Electric Vehicles (BEVs): Tesla S Model (range 350-500 km), Renault Zoe (110-130 kms), Citroen C-Zero, VW E-Up (140 km), Nissan LEAF (110-130 kms), Smart E (range 150 km) are entirely dependent on energy stored in a battery. They neither have an Internal Combustion Engine (ICE) nor an electric generator. They must be plugged into electric socket in order to fully recharge the battery.

Hybrid Electric Vehicles (HEVs) or parallel hybrids: Toyota Prius, Honda Hybrid, Volvo Hybrid and many others use batteries to supplement an Internal Combustion Engine. These hybrids charge the battery entirely through regenerative braking and the Internal Combustion Engine. They do not plug into the grid.

Plug-in Hybrid Vehicles (PHEVs) or series hybrids: GM Opel Ampera-Volt (range 650 km), BMW i3 (range 350 km) have a battery that can be charged by plugging into electric infrastructure are capable of limited all electric range (30 to 80 km). As they also have a small Internal Combustion Engine (called **range extender or REX**) driving an **electric generator** which charges the batteries and/or propels the vehicle.

These vehicles have different batteries technologies with different types of Cathodes:

Lithium Battery Chemistries

There are several types of lithium battery cells. Each cell is distinguished by the chemistry of the electrodes, which take part in the chemical reactions. The table below shows a number of the major chemistries along with their characteristics.

Cathode Material	Short Name	Energy Density	Safety	Cycle life	Use in Vehicles
Lithium manganese oxide	LMO	Very good	good	good	Nissan LEAF, Chevy Volt
Lithium iron phosphate	Li-phosphate	good	Very good	Very good	Fisker EV
Lithium nickel manganese cobalt oxide	NCM	Very good	good	good	EV prototypes
Lithium nickel cobalt aluminum oxide	NCA	Very good	good	good	Plug-in Prius
Lithium titanate	Titanate	OK	excellent	excellent	Proterra transit bus

(Source: « Transportation Electrification » : utility Fleets leading the charge, Edison Electric Institute, June 2014)

Contributed by IMCZ Board member and Events' organizer Danilo Bertocchi

II Vehicle selection: Do I drive 50 km/day or 100 km/day? Do I transport people? What are my comfort requirements and whether the car status is relevant?

Many questions have to be answered in order to be able to select the right vehicle.

The specifications below (according to US Environmental Protection Agency EPA) cover four very different successful vehicles:

model	Ampera Volt 2012		BMW i3 2014		Renault Zoe 2013		Tesla 2014	
	kW	hp	kW	hp	kW	hp	kW	hp
Electric engine	111	149	130	174	65	87	310	416
Range Extender (REX)	63	84	25	34	0	0	0	0
Generator	55	74		0		0		0
Batteries capacity	16	kWh	22	kWh	22	kWh	60	kWh
not usable	-6	kWh	-3	kWh	-6	kWh	0	kWh
usable	10	kWh	19	kWh	16	kWh	60	kWh
Electrical Range	65	km	130	km	130	km	335	km
Fuel tank	35	liter	9	liter	-	liter	-	liter
extended range	511	km	116	km	0	km	0	km
total range	576		246		140		335	
Total cost of ownership/month	1000	CHF	1450	CHF	990	CHF	2500	CHF
Purchase price (1st price)	30000	CHF	50000	CHF	19000	CHF	72500	CHF

III Charging Requirements: Can it be charged at home? At work? Which charging station is required? 16A and 220V or three phase 32A and 400V? What are the capacities of the batteries? 10, 16, 22 or 65 kWh? How much time does it take to charge the batteries? Is there any charging infrastructure downtown or at the golf course? Etc. The industry is setting up standards to be used by every Original Equipment Manufacturer (OEM) and infrastructure supplier. Of course there is considerable competition between European, North American and Asia manufacturers... Plug Type 1, type 2, type 3, Chademo, Combo, etc..

IV Infrastructure: All right, I am buying an E-vehicle but where do I charge its batteries?

Home connection: I want to charge it at home in my parking lot. So I need a power socket connected to my home electric network so I can be charged for the energy consumed. If I rent a flat and a parking lot in a garage, I have to ask my landlord of to manage this issue.

Power capacity: Sure I can use a 9A/220V socket to charge my batteries. In case of an Ampera-Volt 10 kWh it will take 4-5 hours and cost between CHF 1.10 (night tariff) and CHF 2.20 (day tariff) for a full charge. If I decide to install a home charging station (CHF 1700.-) linked with a connection of 16A/400V, my Ampera will be fully charged in less than 2 hours.

Work connection: numerous corporations are starting to install parking lots with E-connections to allow employees charge their cars at work. This is of course the ideal solution; because the cars are being charged every time they are parked thus increasing their operating range.

City charging stations: Zug City may soon improve its network of public charging stations to reach the level of other cities such as Stavanger, Oslo or Amsterdam.

The right plug: At the moment, there are 4-5 different types of plugs available and every car still needs a set of different plugs to insure connectivity within Europe. However, the E-automotive industry is moving fast to introduce a new standard for charging plugs and sockets.

V Cost of the swap: Everybody knows that cars are usually depreciated and written off in about eight years. Therefore all electrical vehicles' manufacturers are offering now an 8 year warranty with unlimited mileage on both the battery pack and the drive unit. There is also no limit on the number of owners during the warranty period. Additionally a 50% discount is granted on road tax in Canton Zug. There is no tax (at least for the present) on the electric energy consumed for charging. (Remember that the price of gasoline in Switzerland includes more than 50% of various taxes)

VI Closing Remarks: Money is not the only criterion in choosing the right car, emotions play a huge role. Driving an electrically powered vehicle is tantamount to changing ones' whole driving behaviour. The faster and smoother ride with virtually no noise (except for tyres noise on the highway) gives one a completely different concept of driving.

On the down side, the resources needed to manufacture the batteries are not infinite. Also constraints on the life-cycle of the batteries, limits on payload and range as well as electric power connectivity in some countries have also to be taken into consideration.



BMW i3 Electric car with range extender



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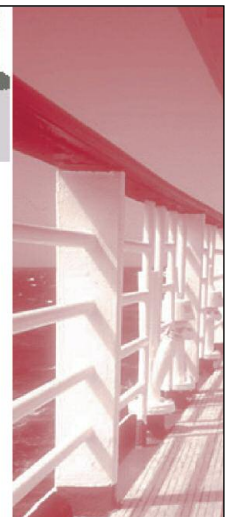
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A Night at the Bürgenstock

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

Steve Nikolov

Many of you may remember the Special Stammtisch on the 6th of February this year, at which Steve Nikolov presented the Bürgenstock Resorts to us at the Bären Restaurant. At that time he explained to us the five-point plan of Katara Hospitality to once again make the Bürgenstock a premier destination for all kinds of tourism. For those who missed the presentation, the slides can be found on the IMCZ website under "Past Events".

Near the end of the presentation, Steve mentioned that the Blockhouse had already been renovated and was available for rental, and also that two of the Panorama Suites had been outfitted as module apartments, for which the project was looking for testers. René Welti, who had organized the presentation, and I both expressed our interest in a test stay in one of the suites and left our contact information with Steve at the end of the presentation.

We had originally planned to spend a test night in the larger of the two model Panorama Suites with René and his wife, Maria. Unfortunately, a last-minute conflict prevented René from participating on the date we had reserved, 24 May, so we recruited Margareta's sister, Vreni, and her partner, Erwin, to spend the night with us.

Construction Site Tour

Toward the end of March, I received a letter from the Bürgenstock Resorts offering a guided tour of the construction project. Several dates were offered; I chose one shortly before our chosen "test night", in order to have a better idea of how to get around during our planned stay. In fact, the tour began with a presentation by Steve Nikolov in the model suite which was to be our home for the "test night". The tour was fascinating, encompassing the remaining, yet to be renovated infrastructure, such as the Bürgenstock Club, as well as the new buildings and the areas still under construction. Steve Nikolov led the tour himself, and explained a great deal of the



Steve Nikolov leading the construction site tour

history of the Bürgenstock resorts, which was a favorite meeting place of the rich and famous in the 1960s and 70s. He also revealed some of the factors leading to the ultimate downfall of the resort, such as the high cost and exclusivity of the Bürgenstock Club.

After the tour, we were invited to a delicious lunch at the Taverna (the inn across from the chapel at the start of the Felsenweg) with the

The suite is well appointed, and is intended to be rented furnished, on a month-to-month basis. It is a spacious apartment (over 300 sq. m.), featuring a large open living & dining area (with well-equipped kitchen), three bedrooms, an atrium, a wine cellar, a well-equipped fitness room with its own sauna and steam bath. In addition to the bath off the fitness room, each bedroom has its own bathroom, and there is a guest toilet as



View of the Lift from the Hammetschwand Restaurant

Managing Director, Bruno Schöpfer, who has over 30 years of experience in managing hotel groups around the world. He discussed some of the regulatory and infrastructure issues the project had to deal with. One of the key issues still needing resolution in order to guarantee the success of the project's five-point plan is regular service from Lucerne to the boat landing on Lake Lucerne at Kehrsiten, from which a cable car runs up to the Bürgenstock. The cable car is also being renovated, but it should be back in service a year before the planned reopening of the Bürgenstock Resorts, in 2017. Regular boat service will be essential to attracting large numbers of day and overnight tourists from abroad, who often make a stop in Lucerne.

Test Night

We arrived for our "test night" early on Saturday, in order to have time to enjoy the surroundings. We picked up the keys to the suite at the Taverna, and going back to the first of the Panorama Suite buildings, descended several levels to the model suite. Thanks to the construction site tour, we knew exactly where to go. The Panorama Suites occupy the face of the ridge away from Lake Lucerne, offering a lovely view over verdant pastures where cows graze.

well. The decor is a bit dark for our taste, but pleasantly modern, with liberal use of wood and stone, as befits the location. When the resort is finished, suite residents will enjoy full hotel service, but we brought our own food and drink in order to fully use all of the features one would use while living there. After stowing our groceries, we took a leisurely walk along the Felsenweg to the Hammetschwand lift and enjoyed a snack and the marvelous view from the restaurant at the top. For those who don't know it, the Hammetschwand lift is an impressive piece of engineering. It was built over 100 years ago, is over 150 meters high and, at an elevation of more than 1000 meters, remains the highest outdoor lift in Europe.

When we returned from our modest hike, it was time to try out the fitness room and spa facilities, and to bathe and dress for dinner. Although I did try a few exercises, we didn't spend much time with the exercise machines, proceeding quickly to the sauna. The sauna was quite comfortable, but we generally prefer steam baths. The steam bath was only big enough for one of us at a time and, despite pictographic markings, was not particularly intuitive to operate. Nonetheless, it provided a pleasant experience, once I got it working!



Atrium

Vreni and Erwin arrived shortly after we had bathed and dressed, bringing some additional supplies. After showing them around, we enjoyed an aperitif on the spacious (40 sq. m.) balcony. Although we were blessed with beautiful weather, it soon cooled off enough that we retreated into the apartment. Although we hardly knew what we were doing, we couldn't resist the opportunity to try out the pool table by the atrium.

Although we brought our own food and drink, the apartment was already equipped with a full spectrum of kitchen appliances (including a Nespresso machine) and enough dishes to entertain a sizable group. As we had also brought our own wine, we resisted the temptation to tap into the embryonic collection in the rustically furnished wine cellar. However, we couldn't resist the photo opportunity ;-).

We baked up the lasagna which Margareta had thoughtfully prepared in advance and soon sat down to a sumptuous dinner.

After dinner, we retired to the comfortable beds and, after flipping through the TV channels and reading for a while, enjoyed a peaceful night's sleep.



Sauna



Fitness Room



Margareta & Erwin Playing Pool

In the morning, we breakfasted on the balcony and dutifully filled out the voluminous questionnaires provided for feedback from the "test residents", which we deposited in the provided "ballot box" before returning the keys at the Taverna and embarking on the short journey home ;-)

The anticipated rental is certainly beyond our budget and, even if it were not, we prefer our somewhat more humble abode in the lowlands. Nonetheless, it was a fascinating and enjoyable stay, and it is easy to see the appeal of such a luxurious, no-fuss, full-service "pied-a-terre" in such a lovely location.

Further Developments

Not long after our "test night", the resort also held an "open construction site" day in June, which was publicized in the IMCZ newsletter and on the website. The Bürgenstock Resorts also donated a night in the Blockhouse for the raffle at our recent annual barbecue. Since settling in central Switzerland, we have always enjoyed day trips to the Bürgenstock, and look forward to the reopening of the resort in renewed splendor. We have already made a date with some friends for New Year's Eve dinner on the Bürgenstock on 31 December 2017. In the interim, we are undeterred by the construction. We have walked the Felsenweg and taken the Hammetschwand lift many times since the renovation started, sometimes stopping for refreshment in the Taverna or at the Hammetschwand restaurant. For those who prefer to pack their own grub, there is also a public grill fireplace near the Hammetschwand restaurant. More adventurous or athletic souls are encouraged to hike all the way up from Ennetbürgen or Stansstad, which can take several hours. A good compromise between these extremes might be the path below the ridge on the side away from Lake Lucerne, via Honegg and Känzeli. More information about the progress of the project, as well as the opening dates and times of the Hammetschwand lift and the restaurants can be found on the English-language website, <http://en.buergenstock.ch/>



Vreni, Margareta and Yours Truly in the Wine Cellar



Erwin, myself and Margareta at the Dining Table

La Alternativa Swiss: The Innovative 'On' Cloudbunner

Contributed by IMCZ sports' editor Joseph Dow

While shopping at Jelvoli, last year, I noticed an unusual-looking sport shoe from the small Swiss company **On**. It featured their distinctive, hollow, cylindrical, rubber shock-absorbers on the sole called "**Clouds**." Not being much of a runner, I did not pay a lot of attention to the shoe, but I do remember thinking that it looked pretty cool.

Although I am not a serious runner, after a torn hamstring from a skiing accident prevented me from running for almost two years, I do plenty of walking and hiking for exercise. When not attempting serious, technical terrain, I often wear "sneakers." Since I travel mostly by SBB train, I need a pair of footwear to wear to and from the various Swiss ski areas. They must be light and compact enough to ski with them in my backpack. Even my light-duty Lowa hiking boots were too bulky and heavy, and I started using various Salomon trail running shoes for this purpose.

So, when I came across some advertising from On showing a special winter version of the **Cloudbunner**, their endurance trainer, and another ad positioning the Cloudbunner as an alternative choice for hiking footwear, I was intrigued. I decided to try a pair of Ons and give you a review about this new Swiss-engineered shoe. Unfortunately, the Cloudbunner Winter Edition is extremely limited and hard to find, but I did manage to obtain and evaluate the standard Cloudbunner and can say it is very impressive. I wore the Cloudbunners extensively over a number of weeks on a variety of terrain for short and long sessions. I took them on full-day city tours, valley walks, light hikes, and for short runs, on flats and hills. The surfaces ranged from pavement to gravel to dirt to cobblestone, both wet and dry. The only conditions I did not experience with them were significant mud and snow & ice, which will have to wait for the winter.

Intended Purpose: The Cloudbunner is the endurance training shoe from On for use by all types of runners, on- and off-road. It is designed to "absorb heavy impact and provide the best stability and underfoot protection," for "high-impact runs, long training sessions and endurance runs." On also approves it for walking and hiking.

Fit/ Sizing: The shoe fits me perfectly, better than any sports shoe I've tried. It seems to run about a 1/2 size small. My size is 11 1/2 (Eur. 46) in the Cloudbunner although I usually wear an 11 (Eur. 45) sport shoe. Having a removable insole, the shoe easily accommodates my custom orthotic (footbed) without any heel lift, which has been a recurring problem with most sport shoes for me. The fit is comfortably snug but not tight. The toes are unrestricted with enough room in length, especially while traveling downhill. Obviously, everyone's foot



is different but there seems to be a good ratio between length and width for a "normal"-width foot like mine.

Breathability: The "3D air-mesh" that makes up much of the upper is airy and keeps the shoe ventilated and cool.

Cushioning/Stability: On's CloudTec system is the key to the Cloudbunner's cushioning and stability. The initial feel is a bit different, and it felt how I imagined a tank tread would feel, but you get used to it in just a few minutes. When walking on pavement, the sole make a faint "brrr, brrr, brrr" sound, but it is completely innocuous. The Cloud design provides not only the inherent shock-absorbing properties of the rubber material, but cushioning of vertical and horizontal forces from the Clouds compressing upon themselves as well. On the inside surface of the Cloud cushions, interlocking ridges or "teeth" momentarily lock when the Clouds compress during a foot landing providing a solid foundation for the next takeoff. A multi-layered "Speedboard" is a platform of rails and grids embedded within the midsole, providing energy transfer and distribution, torsional guidance and additional stability. All this gives dynamic but not squishy cushioning, like a tight spring, which results in a very secure platform and good ground feel.

Traction: With the "Honeycomb slip-pattern" and rubber compound of the Clouds, the traction seems rock solid, gripping firmly on dry pavement and wet gravel equally well.

Durability/Wear: The Cloudbunner is a bull and the most robust of On's offerings but still relatively light weight. The shoes have held up extremely well with extensive use, and the soles show only slight wear.

Unique Features: Of course the main distinguishing characteristic is the CloudTec system, but the shoes have other interesting features. The "diagonal" asymmetric tongue is nicely padded and actually secured to the side of the upper on the inside edge to keep it in place. The side-stitching is exposed and easily removed to detach the tongue, but I did not end up doing that because the system kept the tongue in place nicely. Discreetly applied reflective accents provide visibility/safety when wearing in dim lighting. Each pair of shoes also comes with a numbered owner's card with which you can register with On. The website provides interesting articles and information for running. You will find maps for suggested routes in different cities and tips for using your Ons, such as alternative lacing techniques.

Quality: The quality is topnotch with neat stitching and clean finishing. The shoes are perfectly manufactured to the highest standards.





Design/Colors: The shoes definitely have a unique look and On keeps adding flashy colors to the different models such as Sky (bright blue) with Mandarin (orange) and Olive (grey) with Flame (another orange.) The Clouddrunner is the most traditional-looking On shoe, but the sight of its distinctive Cloud soles still prompted my mom to exclaim, "You are not wearing those on my parquet floors!"

My opinion: The On Clouddrunner is the best sports shoe I have tried and is significantly better than my benchmark, the Salomon XT Wings 3, which I also think is a great shoe. The cushioning, stability, fit and overall high quality make the Clouddrunner a very unique sport shoe, plus On is a Swiss company. I highly recommend them.

Other models offered by On:

Cloudster – the classic design On trainer, using their original CloudTec system, for all types of runners and walkers

Clouddrunner – a light, performance shoe suitable for both training and competing for the trained runner

Clouddracer – a minimal-weight, fast competition racing shoe used by world champions and Olympic medalists in various disciplines of competitive running, on- and off-road

Cloud – a super lightweight comfort model for all-day fitness use and casual wear with an optional "easy-entry" elastic speed lace system for the lazy!



Additional Information:

On-running: www.on-running.com

On Clouddrunner endurance training shoe: www.on-running.com/en-us/products/clouddrunner/

Suggested Lacing Options: www.on-running.com/en-us/news/tags/the-6-best-ways-to-lace-your-running-shoes



No wine, Faulty Pins and a Mix Up in Reservation

All 12 of us showed up well in time on Wednesday August 20, 2014 only to be told that we had not booked, which of course is poppycock as I book up a year ahead. So words will be expressed to the management.

However, mistakes do happen of course. Like no wine for the winners! I forgot it at home. I did apologise profusely to the winners Adrian Lüdi and Angelina Parfenova that they would have to come bowling next month, and wait a whole month in order to receive their well-earned bottles of last night!

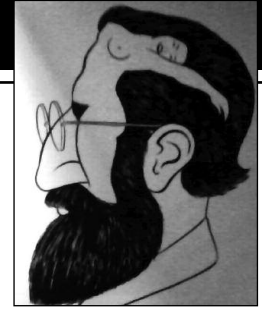
There was a lot of hilarity: Two of the lanes were playing not very well. Lanes 7 & 9 had pin problems virtually all evening, which tended to dampen spirits a little but we still remained happy and full of fun as a group.

Since Henry the speed bowler has not been seen for a month or two we had two hi-speed bowlers: Adrian Lüdi and new ZIWC Lady Angelina Parfenova. Well done you two.

I will let everyone know what the Bowling alley management had to say about our complaints.

Organised and compiled by IMCZ member Stephen Butterworth

First Name	Surname	Game1	Game2	Game3	Bowled total	overall_avg	handicap	STRIKES	SPARES	Split
Beat	Züger	125	138	147	410	137	51	7	8	4
Adrian	Lüdi	156	98	142	396	113	70	5	9	2
Ian	Brenton	133	125	127	385	116	68	5	10	3
Stephen	Butterworth	128	117	134	379	119	65	4	9	5
Phil	Woodward	122	130	122	374	119	65	6	6	1
Hans-Peter	Schobert	95	130	104	329	117	67	4	6	4
Roger	Dixon	97	107	106	310	116	68	1	7	5
Catherine	Butterworth	97	101	82	280	95	84	3	2	2
Angelina	Parfenova	79	79	101	259		84	4	2	1
Johanna	Brown	50	92	56	198	52	84		2	1
Terri	Werder	77	50	70	197	77	84		1	5
Gail	Brenton	67	51	51	169	84	84			3
First Name	Surname	Game1	Game2	Game3	Handicapped	overall_avg	handicap	STRIKES	SPARES	Split
Adrian	Lüdi	156	98	142	606	113	70	5	9	2
Ian	Brenton	133	125	127	589	116	68	5	10	3
Stephen	Butterworth	128	117	134	574	119	65	4	9	5
Phil	Woodward	122	130	122	569	119	65	6	6	1
Beat	Züger	125	138	147	563	137	51	7	8	4
Catherine	Butterworth	97	101	82	532	95	84	3	2	2
Hans-Peter	Schobert	95	130	104	530	117	67	4	6	4
Roger	Dixon	97	107	106	514	116	68	1	7	5
Angelina	Parfenova	79	79	101	511		84	4	2	1
Johanna	Brown	50	92	56	450	52	84		2	1
Terri	Werder	77	50	70	449	77	84		1	5
Gail	Brenton	67	51	51	421	84	84			3



A Redneck Love Poem

Susie Lee Done fell in love
 She planned to marry Joe
 She was so happy 'bout it all'
 She told her Pappy so
 Pappy told her, Sussie gal,
 you'll have to find another,
 I'd just as soon yo' ma don't know,
 but joe is yo' half brother
 So Susie put aside her Joe
 and planned to marry Will
 but after telling Pappy this
 he said, 'there is trouble still'
 You can't marry Will, my gal,
 and please don't tell your mother,
 but Will and Joe, and several mo'
 I know is yo' half brother.
 But Mama knew and said, my child,
 just do what makes yo' happy.
 Marry Will or marry Joe;
 You ain't no kin to Pappy

Sigmund Freud

Do take a good look, what does this photo tell you?
 By the time you say ooooooooooooooooooooooh, you will know
 what is on every man's mind. At least this is what Freud thought.

Carnation Milk

A little old lady from Wisconsin had worked in and around her family dairy farms since she was old enough to walk, with hours of hard work and little compensation. When canned Carnation Milk became available in grocery stores in the 1940s, she read an advertisement offering \$5,000 for the best slogan. The producers wanted a rhyme beginning with 'Carnation Milk is best of all.' She thought to herself, I know everything there is to know about milk and dairy farms. I can do this! She sent in her entry, and several weeks later, a black car pulled up in front of her house. A large man got out, knocked on her door and said, "Ma'am, ... The president of Carnation milk absolutely LOVED your entry ... so much, in fact, that we are here to award you \$1,000 even though we will not be able to use it for our advertisements" He did, however, have one printed up to hang on his office wall.



True story



The Old Man and the Bike

Since arriving in Switzerland in 2007, I have noticed a disturbing trend: mature men, in their 60s, riding bicycles at very high speeds on the public ways of Zug and Zürich. They are decked out all over in LYCRA/ spandex, typically riding extraordinarily expensive road race bikes from BMC, Cube, Santa Cruz, Specialized, etc., loaded with micro-computers and LED lights. The biggest issue with these jokers, besides their ridiculous appearance (you won't see me skiing in a skin-tight World Cup downhill suit,) is their absolute refusal to yield to anyone in their way. In their delusion, they believe they are participating in a time trial, on a closed course, for Le Tour de France, even though they are recklessly speeding down the streets and paths used by the general public. All kidding aside, these idiots are quite dangerous and have nasty attitudes to match. They will run you down!

Joseph Dow



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

Join us in the
 Park Hotel in Zug.



WWW.SELECTIONS

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.

Current Issues and Innovations – contributed by Roger Brooks

Wearable displays - no longer science fiction

<http://spectrum.ieee.org/tech-talk/consumer-electronics/audiovideo/innovega-delivers-the-wearable-displays-that-science-fiction-promised>

<http://vimeo.com/77810226>

Personal Camera usage

<http://spectrum.ieee.org/energywise/energy/renewables/an-energystoring-wind-turbine-would-provide-power-24/7>

Faster CPUs - using new laser technology

<http://spectrum.ieee.org/semiconductors/optoelectronics/lowpower-laser-could-speed-cpus/>

Someone's watching you

<http://spectrum.ieee.org/computing/software/browser-fingerprinting-and-the-onlinetracking-arms-race>

It always strikes me that Roger has a deep interest in what is happening in the world. I am often fascinated by something he has said and wonder why many of these items do not appear in the popular press. The internet is a source where seed changes to our way of life can be detected in their infancy. This month I received some really great links from Roger. The first is about the future of wearable eye technology. It explains the limitations of Google glass and gives us an insight into other technologies that exist in the prototype stage but will become a reality in the next year or two. The second link is to a clip about the ubiquitous personal camera. It goes into the general acceptance by the public that they are being included in someone else's video clip or snapshot. The third link is to an English professor of Dynamics and Mechanics' vision of how energy could be stored in the future. With hydroelectricity plants the solution is to pump the water back up to a reservoir. With other technologies, e.g., wind and solar, there isn't the luxury of a head reservoir. Here we have to find alternative solutions and this article tells us about some of the options that could be developed. Is there no end to how fast our computers can operate? The fourth link gives us insight into the next breakthrough in technology that will one day, in the not too distant future, make our computers even faster. Roger sent me many more links, but for link five, I chose the one about how companies profile and target us through the internet. This article tells us about the history of tracking and our losing battle for internet privacy.

Beer

Burco boiler

<http://spectrum.ieee.org/computing/software/browser-fingerprinting-and-the-onlinetracking-arms-race>

German Beer Law - Reinheitsgebot

<http://www.npr.org/blogs/thesalt/2013/12/17/251959392/is-a-500-year-old-german-beer-law-heritage-worth-honoring>

<http://www2.beerguild.co.uk/?p=3722>

Mild beer

https://www.youtube.com/watch?v=DhISfR71_ks

Technique - Making a more complicated beer

<http://www.lakeland.co.uk/info/home-made-beer-and-cider>

Technique - Making a simple beer

<http://www.jimsbeerkit.co.uk/cornelius.htm>

Home brew kegs

<http://www.sios.ch/Home>

Swiss Home brew Supplier

<http://www.fermentationriot.com/beerfermentationtimelapse.html>

Fast forward - Watching the Fermentation process

<http://homebrewingcaps.com/>

Having spent many a Thursday evening, in the Park Hotel, enjoying this beverage in the convivial company of many other beer drinking members, I feel sure the title of this section will gain your attention. One of my earliest memories is of my Grandfather brewing his own beer and making wine. He used an old (1950's) copper lined 10 gallon Burco laundry boiler to brew the beer. The boiler lived under his workbench in the garage. I was surprised to see many of these ancient boilers for sale today and in use for brewing beer (1st link). I was given the privilege of stirring and generally helping out. My Grandfather wasn't restricted by the 500 year old German purity laws (2nd Link). Many ingredients, including tea to give it colour, would be wrapped in a net curtain and left to boil. Recently I decided that I would set up my own brewery. My first choice was to brew my favourite Mild Ale (3rd Link) but it was too complicated for a first outing (4th Link). I wanted a very simple process (5th Link). Rather than clean and sterilise a lot of bottles by hand, I opted for a keg system (Link 6). After some searching I was able to find a specialist company on the other side of Lake Zurich (Link 7), Richard the owner was very friendly and spent quite some time going through equipment and process with me. I also got to sample his own incredible brew. I was able to source the equipment and supplies and am now in the process of brewing a simple Export Stout. The last 2 links are for general interest, the first shows what happens during fermentation and the second shows humorously how to make beer with very little equipment.

Low-Power Laser Could Speed CPUs

The polariton laser now runs on electricity, operates at room temperature, and could be key to on-chip optical interconnects

Lasers have largely replaced the copper wiring of old to speedily stream bits across servers to large data centers. Engineers have long dreamed that they could use lasers to do the same within the server's data-congested processors, too. One problem standing in their way is that even the most efficient lasers need as

An Energy-Storing Wind Turbine Would Provide Power 24/7

Energy

Innovega Delivers the Wearable Displays that Science Fiction Promised

overflowing reduces bubbles
bubbles make beers good beer making
homebrew beer - chocolate stout

Cornelius Kegs

IT'S EASY TO MAKE YOUR OWN BEER & CIDER

Is A 500-Year-Old German Beer Law Heritage Worth Honoring?

Listen to the Story



Members' Marketplace

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 A gorgeous view of the Bay of Biscay,
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 Or are you **cashing in** the half of your stamp
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 Call Bill at 041 123 45 67.

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- 1/3 Page, horizontal (19 x 9.2 cm), Fr. 85.-
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- Business Card (9.2 x 6.45 cm) Fr. 45.-

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 IMCZ Members receive a 20% discount on advertisement costs.

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