## **BEYOND THE BORDER:**

# NORTHERN BEAT

Justin Koullapis



THE HELIXES OF HOROLOGICAL DNA SPIRAL EVER FURTHER AWAY FROM THEIR HELVETIC CORE AS WE EXAMINE THE WORK OF ENTERPRISING WATCHMAKERS OUTSIDE SWITZERLAND. IT SEEMS THAT THE FURTHER FROM SWITZERLAND ONE EXPLORES, THE MORE NOTIONALLY DISPARATE THE PHILOSOPHIES AND TECHNIQUES OF THE CRAFTSMEN IN QUESTION BECOME. IT IS AS THOUGH SWISS DISCIPLINE BEGINS TO LOSE ITS COMMAND WITH DISTANCE, DISSIPATING EVENTUALLY INTO THAT GREAT POOL OF CONTINENTAL EUROPEAN RESOURCEFULNESS AND IMAGINATION.

#### NORMAN CONQUERORS

**ne of the twin strands** of this mutated DNA lands in Brionne, a beautiful town in Upper Normandy. This idea of starting watch production in the northern reaches of France was envisioned by the then-partnership of Karsten Fraessdorf and Urs Gottscheu. Since 1995 the pair were engaged in the development of a couple of watch calibres for a German investor by the name of Marc Brogsitter. Fraessdorf is a German, and Gottscheu is Swiss and both have long years of experience in production and restoration work within the industry.

It was over a bottle of good French vintage that the bare bones of the project materialised. There were to be two watches, both rectangular, both with shaped movements; that is to say, the movements would also be rectangular. They were to be entirely hand-made, without recourse to any digital machinery. All the machining was to be done using the traditional techniques of the toolmaker: jig-boring, pointing, milling - the watches were to be manually fitted and turned. And so the new Fabrication de Montres Normandes got off to a great start with little more investment than the enthusiasm and energy of the partners.

As they were going to the trouble of creating hand-made watches, the movements might as well be on parade - and what better element to catch the eye and capture the imagination of the collector than a

large, stately balance? Mass-produced watches have small, light, and insignificant-looking balances, designed to be a doddle to manufacture and require minimum human intervention while yet attaining high precision.

These goals are not required for the handmaker of watches, who can attain very high precision by other methods. Fraessdorf and Gottscheu would bring their exacting hand-skills to bear when it came to to coaxing chronometric performance out of their creations, just like the prize-winning chronometer springers did with their slowbeating marine instruments for the first half of the 20th century.

It was decided to run the new watches at 18,000 vibrations per hour. This old-school 'beat' for watches has been somewhat derided since the 1960s until recently. In theory, higher frequencies are better when it comes to extreme precision for mechanical timekeepers. The problem is that they are completely unrelenting in their demands for driving power, which means that their wheels, pinions and pivots are constantly under exceedingly high levels of strain. wearing away much faster than their more leisurely-paced cousins. Neither do the relaxed cousins constantly try to fling away their vital oil supply oil in a self-destructive frenzy. All said, slower-beating watches are just as good, and can easily outlive the more

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CLOCKWISE FROM TOP LEFT: All the work at the Fabrication de Montres Normandes is done with

very limited numbers in mind when it came to

producing those first two batches of watches;

a few dozen pieces at most. They would not

need to worry about high frequencies. The



very large size of their balance was chosen on 17 August, the balance diameter was set at 17.08mm. rest of the movement can be designed with this primary element as a kingpin. Each of the two designs had a unique feature; the first being a rather traditional tourbillon. With the

> rotating carriage supported by a skeletonised interior of the movement is unabashedly on show, with nothing to hide.

important aspects.

to a pitiable nadir a day or so later, in the

accurate time in spite of this power variation. The remontoir, to the English-speak device that takes this variable energy suppl and doles it out in perfectly even parcels at the device itself is very wasteful of energy and requires the watch to be over-powered

a device that constantly locks and unlocks against the motive power, sapping energy as that he would produce the movements for t goes, it uses a more-or-less freely-moving impelled forward: as it moves it stores some . afterward for himself, which seems to be a fed back into the escapement via another. 1

Gottscheu returning to Switzerland, and original concept. The Brogsitter commission<br/>was successfully delivered with its namesake<br/>continuing to exhibit at the Basel fair. So withmakers to a very high degree of precisic<br/>Each of Fraessdorf's 12 assistants has be<br/>given one of the FDMN watches to we

RIGHT: The talented young Hungar

BELOW: The Constant Force watch and t ourbillon, commissioned from FDMN



or FDMN

hout being at liberty to divulg too mu eveal that a la production under the FDMN banner, when e was approached with the commissio very gentlemanly way of going about things

large-diameter balances, capable of being sprung and adjusted by skilled chronometer



### 52 **S**/R

The primary objective for the conscientious restorer is that the artefact should remain in a condition that is as close to the original as possible, while sticking to the normal concept that the watch should still run well and keep good time.

and to develop and modify the movements as they please. They are being encouraged to fine-tune the performance of the watches with a view to submitting them to the new Chronometer trials that are to be conducted at the Museum of Horology du Locle, and also the 'New Kew' proposed in the United Kingdom. Magnanimously, Fraessdorf has declared that all watches submitted to the trials will be entered under the name of the watchmaker who actually adjusted it, rather than in the name of the company, thereby giving the individual craftsman a great level of personal recognition. Furthermore, he has publicly stated that he does not expect to win the competition in the first year, nor even in the first few years, but would be more than satisfied with the endorsement that an entry conscientious restorer is that the artefact into the contest would confer

It's a good foundation upon which to build a legend - steady, measured progress, partnerships with respected contemporaries, great candour, and of course, the ability to concoct beautiful watches.

#### HUNGARY FOR NEW DIRECTION

At the diametrically opposite end of Europe, in another of the Continent's most beautiful regions, is the workshop of the young independent Hungarian watchmaker Aaron Becsei.



Becsei is the scion of a Budapest watchmaking lineage that is now in its third generation. At only 30 years old, he has conceived and produced some startlingly complex creations. After leaving school, he attended the watchmaking class at the Budapest School of Professional Services and Crafts and, eager to augment his studies with greater practical skills, he conducted high-grade watch restoration work at his father's side. He eventually also acquired recognition for his thesis on a Tourbillon with Duplex Escapement.

The restoration of a rare vintage wristwatch or avaluable pocket-watch requires a particularly refined combination of watchmaking and aesthetic skills. The primary objective for the should remain in a condition that is as close to the original as possible, while sticking to the normal concept that the watch should still run well and keep good time.

Of course, the balance between preservation of the original materials and the instrument's ability to work as a useable timepiece is always a shifting ideal - a conservator working, for example, on a very rare timepiece, say Captain Cook's chronometer, would be far less concerned with the instrument's present ability to navigate to Australia than with the preservation of the materials and finish applied by the original maker. A restorer like Aaron Becsei, on the other hand, has an entirely different set of imperatives. He, too, must consider the importance of preserving the character of the watch, but he also has customers who want their cherished items returned to working condition and keeping time. And there is the ever-present focus on keeping the wolf from the door if one wants to remain in business.

So it's for reasons like these that young Becsei's aptitude has to be more exacting than the average watch repairer's. When he created a new sliding pinion for a vintage Patek Philippe wristwatch, the teeth he cut, using a cutter he made, had to be very carefully formed indeed if they were not to damage the original wheel with which they engaged. When he made a tiny new balance staff for an early Cartier, it would have to have had its diameter gauged to exceedingly narrow tolerances so as not to split apart the original tubular roller that is pressed on to it at the end of the job, for not only would re-making the roller be immeasurably more difficult than making a new balance staff, but it would be a quite shameful thing to be the watchmaker who split it.



Dateline

54**SR** 





LEFT TO RIGHT FROM ABOVE: The bi-metallic thermometer strip is a purely mechanical way of sensing the temperature; Tourbillon No.2, with a spring Detent Escapement, perpetual calendar, world time, thermometer, and moon phases; The tiny Zappler is about the size of a one of the FDMN watches.



Elderly restorers often comment that over far differs from its antique inspiration in one one from scratch! Not so Aaron Becsei. Not I look complicated - they actually are highly one to be kept hanging around for years, he set about making his own watches right from the early days, long in advance of the subsequent two timepieces watches. At appearance of his first grey hair.

contradiction, is normally only about 50mm were presumably meant to amuse, while displaying the skill of the maker. Becsei has taken the concept to its ultimate logica conclusion: miniaturising the miniature. His Zappler is only about half normal size, at 20mm, roughly the same as certain

Just as striking as the frisky little pendulums beating away in front of the dial (zappler is German for fidget!) are the compelling engraved blued-steel plates that make up the clock's frame. Shaped like a shield static watch like this, it performs admirably. held aloft by a pair of gilt-brass dolphins, The similarly eponymous Tourbillon No.2 the whole thing is covered in the most has an even greater number of functions beautiful swirling, deep, foliate engraving. to counter the mass of foliage that seems Indeed, this highly ornate 17th century style i to have taken root deep in the heart of the of ornamentation is a distinctive feature on machine. This time there is a perpetual

the course of many years, they would very important way: all the watches he has have physically re-made parts for so many made (with the exception of the Zappler) do watches that they might as well have built not require the engraver's art to make them mechanically intricate

Maybe it's a bit of a stretch to call his just under 10cm across, a little less than The first timepiece he made was a miniature John Harrison's famously successful marine Zappler, a curious little instrument that is chronometers that were similarly housed generally more capable of beguiling the in oversized watch cases, complete with ker than keeping precision time. An pendant and bow by which to wear them in ordinary Zappler, if that is not too broad a stretched pockets, they really beg to be left in one place. Becsei has thoughtfully provided high. It is a miniature version of a kind of early each of the machines with a matching stand German iron wall-clock, where the pendulum and winding key, allowing the owner to swings in front of the dial. These miniatures admire the masterpieces without needing to pick them up.

in 2007, and has a full calendar display, including lunar phases, state-of-winding indicator, a world time display, thermometer, and of course, headed up by a tourbillon incorporating a Duplex escapement. The Duplex was generally abandoned about a all of Aaron Brecsei's work. His output so i calendar, including the days of the week,



the months, dates, leap-year cycle, and phases of the moon. The bi-metallic strip that governs the thermometer can be seen at the back, near the world's timezones. The tourbillon, this time, has a Spring

and intensity of ornamentation that these two instruments possess, Becsei's clever choice of escapement will not be lost on the cognoscenti - each of the types chosen has the peculiar side effect of a jumping seconds hand. Jumping seconds are very difficult to produce well, and collectors know that jumping seconds on any mechanical (not quartz) timepiece alludes to something really special inside

As though these were not enough of an achievement. the energy of Becsei and his wife, Eszter has prevailed again, so that at this year's Basel Fair, he presented a true watch, in wrist form, no less. Dubbing it the he has attained. Primus, Becsei has sought a new direction. Gone is the ultra-complicated look. Instead, crisp, clinical lines of an angular white gold case, punctuated on one side by a sharplydefined deep engraving that incorporates his new logo and by a sapphire window into the case on the other. He has simplified the spelling of his family name in the logo to 'Bexei', which is more or less how it's pronounced - the long strings of consonants found in the vernacular Magyar are enough to paralyse the tongue of the bravest English speaker! Besides, it's more symmetrical



I guarantee that these design niceties will not even be noticed until much later, only after the observer recovers from the irresistible visual gravity given to the watch by its primary mechanism: a TRIPLE-axis tourbillon. Few device. Its inventor, the Englishman Richard Good, built the first of its kind into a carriage clock about 30 years ago and, decades later both Thomas Prescher and Franck Müller followed suit with wristwatch versions of this highly complicated device. A further variation Progress Watch Company. That Becsei short time, at such a young age, and entirely alone, is nothing short of astonishing. Far beyond the reach of potentially collaborative groups of helpful peers that nestle betweer the Swiss Alps, this watchmaker has bee going it alone, and what remarkable results

The Primus will be produced in a very limited series of nine pieces, after which Becsei is planning to produce a simpler, more universally appealing watch.

is, of course, an imperative final destination and for the final part of the journey we shall head north across that foggy shipping lane, La Manche. The counterpoint to Continental watchmaking has forever been rooted deep in the British Isles, and that is where the fina leg of our horological journey will take us.

Quite apart from the jaw-dropping scale and intensity of ornamentation that these two instruments possess, Becsei's clever choice of escapement will not be lost on the cognoscenti - each of the types chosen has the peculiar sideeffect of a jumping seconds-hand.