

**F.P.JOURNE**  
**Invenit et Fecit**

**FHH**

FONDATION HAUTE HORLOGERIE  
FOUNDATION HIGH HOROLOGY

**Young Talent Competition**  
**The Winners 2018**  
17 January 2018 – SIHH Geneva

With the support of:



*L'outil Horloger...*

Since 2015, the Young Talent Competition allows discovering the next generation of most talented young watchmaking apprentices in the world, supports them in their route to independence by identifying their achievements and putting them under the spotlight.

F.P.Journe is organizing the Young Talent Competition this year with the support of the Fondation de la Haute Horlogerie (FHH). F.P.Journe and the FHH aim to perpetuate and support the art of haute horology.

F.P.Journe awards the Prizes for the third year to the winning young talents, on Wednesday, 17 January 2018, during the press conference at the SIHH in Geneva.

The Young Talent Competition opened this contest to 47 international watchmaking schools in 14 different countries. The entry requirements were as follows:

- *To be an apprentice watchmaker or to have completed an apprenticeship after August 31, 2014.*
- *To have independently conceived and constructed a watch, a clock, or a technical construction.*
- *To send photos / videos of the watch, clock or technical construction*
- *To attach a description of the timepiece's characteristics*

The jury of the Young Talent Competition 2018 is composed of key personalities from the international horological scene: Philippe Dufour, Giulio Papi, Andreas Strehler, Marc Jenni, Pascal Ravessoud, Michael Tay, Elizabeth Doerr and François-Paul Journe. Their selection criteria have been based on technical achievement, the search for complexity in their realization, their sense of design and aesthetics.

The 2018 winners receive a diploma and a CHF 3,000 grant from Horotec, which will allow them to purchase watchmaking tools. They have the privilege of presenting their creation at the FHH in Geneva. The FHH will offer them free access to the FHH Certification (the only worldwide recognized watchmaking knowledge certification), and a dedicated horological history course.

The 2018 winners are:

**Charles Routhier** – France

*Halley*

**Rémy Cools** – France

*Mechanica Tempus Pendulette Tourbillon*

**Théo Auffret** – Switzerland

*Tourbillon à Paris*

# Charles Routhier

## Halley

Age 24 - Morteau - France

**Graduate from Lycée Edgar Faure in Morteau - July 2017**

### **Project\_**

Creation of a wrist-watch inspired by astronomy and bearing the name of the renowned comet Halley.

### **Technical Characteristics\_**

**Case:** Steel diameter 42 mm, height 13.00 mm **Movement:** 28'800 V/h, anchor escapement, 14 jewels **Functions:** hours, minutes **Dial:** Brass golden 5N and palladium, circled by hand, Onyx cabochon and metallic pearls, comet shaped balance spring bridge at 12h.

**Specificities:** Baseplate and bridges conceived and made by hand, the pin of the anchor is turned over and its small shaft is displaced in order to put the pendulum and its bridge into the shape of a comet on the dial. The time setting is made of only two parts which allows for a simple milling and assembly. The movement is made of 18 machined or reworked parts, without counting the cinematic, the sets of screws and pins.

### **Testimony\_**

*"For validation of our DMA, I created a watch to commemorate my school's 30 years of existence. No artistic theme was imposed.*

*This watch carries the name of the famous comet "Halley" that can be seen every 76 years. Its inspiration was found in the many details linked to astronomy (comets, stars, constellations, planets). Its night blue face with a visible pendulum (heart of the watch) and its bridge in the shape of a comet make it a very poetic, blended and attractive watch.*

*The bridge mechanism is inspired by the ancient astrolabes. Orion's constellation is hidden among the stardust. The pendulum bridge is in the shape of a comet.*

*From times long past, and still today, we are continuously finding different ways of understanding the purpose of our existence. What are we doing here on Earth, and why? What are we involved in? Can we change things? Can we perceive them differently?*

*The religions, the Gods and the beliefs have always shown us the direction to take so that we will not be taking a path that is different from the path our society makes us take, like pawns... And what do we become in all this?*

*What do we decide? For this watchmaking project, I would like to look at the situation we find ourselves in as human beings, by putting Man in the centre of our concerns, playing his full part with the magic of the way he behaves. Because, let's not forget that man exists, thinks about, and interacts with his environment, while he is depending on the vast universe surrounding it all.*

*I feel the wish and the need to see man with his true value, free of rights, free of thoughts, through a certain precious temporal object. We have a role to play. We are important because we are here. So we have the right to know who we are and to take time to know ourselves better. A watch lets us refocus, but it is part of a more global process and cannot be sufficient for the individual...*

*This representation of ourselves is born again in the heart of a deep, mystical and serene universe in order to be able to symbolize our personal internal wealth in a material manner, at a moment that we can capture and find where we are. We would be linked with this object to refocus ourselves and be at one with ourselves, as if we could explore the depths of our personality.*

*We are surrounded by what we know, or in any case what we think we know: nature and living beings, governed by unconditional time, which we lack, but that gives a meaning for our lives. And yet beyond is the unknown, the endless universe that we know nothing about, even though the magic of it all will not cease to arouse our curiosity. These concentric circles form our environment, and I hope to visually represent them within this timekeeper. Taking a pyramidal "kingdom" form, based on its three levels, with us in its centre and at its summit. There we take hold of the present moment so we can refocus, especially to become aware of our daily surroundings.*

*Or, on the contrary, to forget them..."*



# Rémy Cools

## Mechanica Tempus Pendulette Tourbillon

Age 20 - Morteau - France

**Graduate from Lycée Edgar Faure in Morteau - July 2017**

### **Project\_**

Creation of a little whirlwind clock set on a foundation with parts from a little L'Epée clock and on a theme related to the great eras of watchmaking.

### **Technical Characteristics\_**

Display of the hour and the minutes, display of the seconds by the tourbillon, winding and time-setting by key.

**Dimensions:** H 30 cm x L 20 cm x D 15 cm **Movement:** Diameter 110 mm, thickness 30 mm **Dial:** Diameter 60 mm, diameter sanded background 45 mm, circling on the periphery i.e 7.5 mm, fixation screws identify 3h and 9h **Indication:** Hours and minutes, second indications from the Tourbillon, winding and time setting with key.

**Specificities:** Tourbillon cage 42 mm diameter doing a complete rotation in 60 seconds.

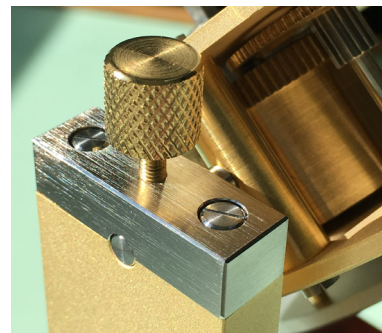
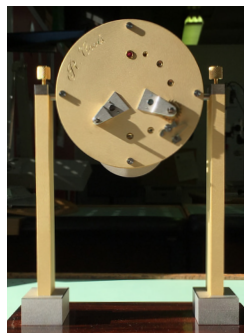
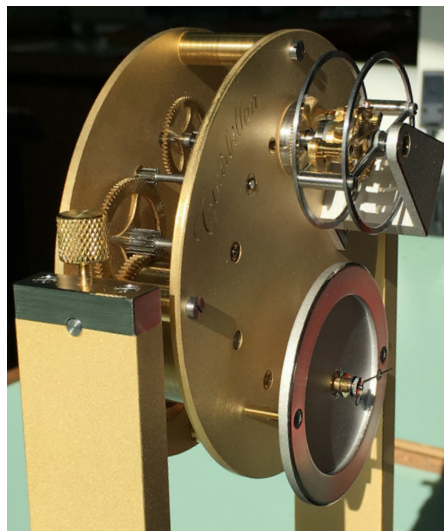
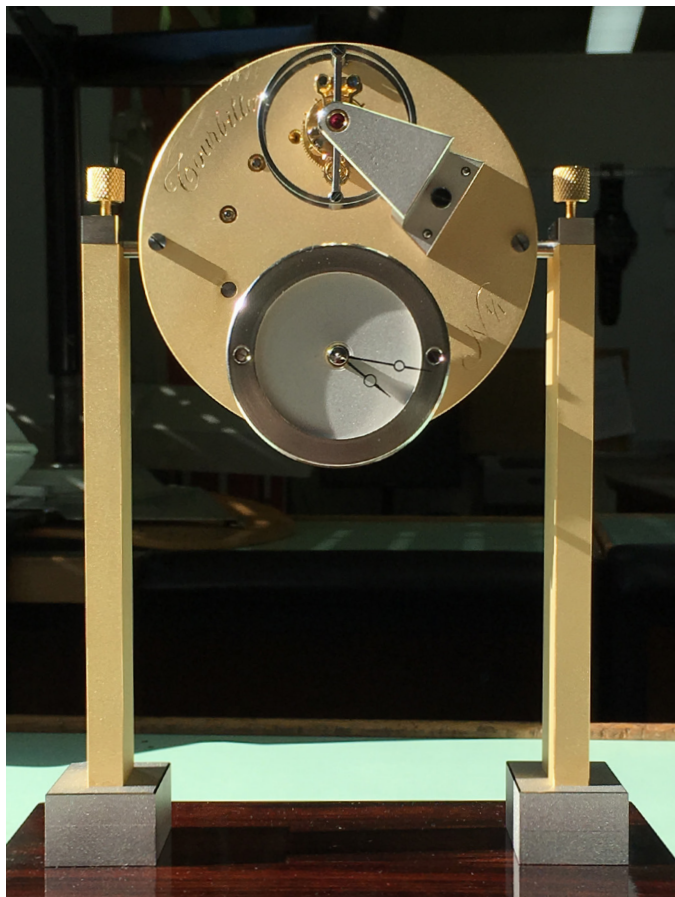
### **Testimony\_**

*"I wanted a clock with an imposing tourbillon to obtain more movement. The clock has an off-centre display as well as an inclining movement system inspired by maritime chronometers. It allows the movement to lean in all the various directions so as to see the movement from all angles.*

*I accomplished this in an entirely traditional manner with milling, "pointeuse" and lathe, all this with a goal of learning and preserving the techniques and know-how of watchmaking. I was inspired by the great watchmakers from the times such as Breguet, Berthoud, Janvier and Leroy, to only mention a few.*

*I wanted to make a little clock that would not just follow all the codes for little office clocks one usually thinks of. It has a style with traditional shapes but is still very contemporaneous. I made the watchmaking finishing, such as chamfered polishing, blocked polishing, strapping as well as more modern finishing like sanding. The contrast between the golden parts and grey rhodied as well as with the sanding, the chamfering and the traditional engravings give it a rather interesting depth. The stand and the storage case for the key are made of jatoba (courbaril) wood."*







# Théo Auffret

## Tourbillon à Paris

Age 22 - Boudry - Switzerland

**Graduate from Lycée Edgar Faure de Morteau - July 2016**

### **Project\_**

Construction of handmade Tourbillon regulator chronometer “à Paris” with traditional techniques.

### **Technical Characteristics\_**

**Case:** Silver 38 mm diameter, thickness 11.5 mm, silver clasp **Movement:** 14.5 lines, maillechoir and steel bridges, spiral with Phillips curve, 18'000 V/h **Escapement:** lateral anchor wheel from Jaeger LeCoultre approx 1920 **Power reserve:** 40 hours **Functions:** Hours, minutes and 60 seconds cage **Dial:** Hours in fine silver, circled, polished, hands turned by hand and filed, polished and blued **Bracelet:** Alligator navy blue.

**Specificities:** The construction was studied in order to prepare the piece for Chronometry in the easiest way, poising, setting. The sensitive watch organs have been specifically prepared to be solid and reliable (time setting, winding, click with large recoil. The goal being to make a solid and easy to wear watch on a daily basis.

### **Testimony\_**

*“I began the construction of my watch independently, mostly in the evening after work and during weekends, and also outside the time spent on the school project.*

*I was motivated by numerous old pieces discovered during my first two years as an apprentice, the quality of execution and the visual beauty of old watches has always fascinated me. I have collected books for a long time and followed the auction rooms of Hotel Drouot in order to observe clock and old watches, mainly from the eighteenth century, my favorite time in watchmaking.*

*The drawings of the watch took me about two months, the construction began in February 2015 and was completed last May. The watch was entirely hand-made, without digital help, for that reason many components have been simplified. Some parts have been recovered such as the exhaust that comes from a Jaeger caliber of the early 20<sup>th</sup>, but almost all the rest of the train has been cut.*

*The movement is composed of a flat central base plate in maillechort and bridges, front and back. A great wheel meshes a cage rotating in 60 seconds. The balance wheel oscillates at a frequency of 18000 V/h.*

*The chronometric cylinder is very high and allows for a tall spring that is long and thin to prolong the ideal chronometric period as much as possible.*

*The cylinder, and the centre gear and the free-moving pinion are from the Maison Peuseux's 260 high-end calibre, who created this movement in the first part of the twentieth century.*

*The centre gear meshes with a large mid-gear and this construction is not found very often because the module used is larger than the preceding one, but this choice makes it possible for me to reduce the number of gears in the calibre so as to reach the cage pinion of the Tourbillon, in fact, each gear added increases friction and reduces the efficiency of the calibre. Also, the large modules make it possible to have a very precise gear at the level of the interaxe. So a strong force will easily get to the cage pinion. Besides, the mid-gear rotation is visible due to the size of the cut-out.*

*The display is of the "regulator" type, so the hour hand is off-centre on the face made of silver and the minute hand in the centre joins a face in "a path of dots" on the outside of the front face. The hands were manufactured on 8 mm tour in 20AP steel for a perfect escapement, then finished with a file.*

*Due to certain height limitations on certain parts, I used key-screws, so one is visible above the escapement. This old technique keeps it firmly stable at only one point, but each time it has to be adjusted by hand.*

*Only two bridges are made of steel, on the back of the watch, and hold the last level of the watch, which is the cage pinion and the large mid-gear. All the screws were manufactured on a Schaublin 102, in steel, soaked, angled, pulled then polished.*

*The case and the loop were handmade by twisting 900/1000 silver and by welding silver bars. The case alone required one month of work. The crown is made of white gold and the traversing loop screw of titanium. The cases mineral crystals were custom-made by a craftsman in Paris who worked with a case blank."*



## **[www.fpjourne.com](http://www.fpjourne.com)**

The independent F.P. Journe Manufacture produces fewer than 900 precision mechanical watches per year with 18K rose gold movements, the brand's exclusive "signature". The label Invenit et Fecit, which is engraved on all its watches, guarantees and highlights the importance of a in-house calibre entirely designed and constructed in its workshops.

F.P. Journe organises the Young Talent Competition and brings more than 30 years of expertise in authentic haute horology. It is a real honour for François-Paul Journe to encourage these young talents by sharing his horological knowledge, his passion and his determination on a daily basis. He supports them as he was supported at their age.

## **[www.hautehorlogerie.org](http://www.hautehorlogerie.org)**

The **FHH** has set itself the objective to promote Fine Watchmaking worldwide. This ambition takes shape through activities relating to the Foundation's missions: Inform on latest developments, the history and professions of watchmaking; train and recognise professional knowledge; organise events for the industry and the public at large

FHH Cultural Council counts some forty independent specialists in every area of Fine Watchmaking expertise. It guarantees the FHH legitimacy and objectivity. Furthermore, it ensures the Foundation has the best possible vision from which to serve the interests of the branch.

## **[www.horotec.ch](http://www.horotec.ch)**

Since 1946, Horotec SA has supplied tools and equipment for horology and microtechnical work. Horotec SA is implicated in professional training in the field of watchmaking, while also supporting creativity in the young generation of students, apprentices, and young talents who will go on to become the pride of their profession.

It is thus for Horotec SA an achievement and an honour to be associated with the "Young Talent Competition" award. We wish the competition and all the participants the greatest success.

You will find images of the **2018 Young Talent Competition** on the USB key  
or you can download them from our server **F.P. Journe**:

<https://www.fpjourn.com/presse> and choose **Young Talent Competition 2018**

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