SPACE UP TOULOUSE

Le Capitole, Toulouse town hall, at night (Credit: Benh Lieu Song)

PROGRAMME

20-21 September 2014

The SpaceUp Toulouse organising team would like to especially thank
Cité de l'espace for hosting the event!

Welcome to SpaceUp Toulouse!

The SpaceUp Toulouse organizing team welcomes you to the second SpaceUp Unconference in France. We are very proud we were able to bring this successful and fun concept to our region and to have found a great location and a great setup, but… You will have to help us make it a success in the upcoming two days!

We have provided you with a location, an empty grid and a few special-guests, but now it's up to you to fill the grid with great space content. Just stick a post-it note in the slot that best suits your idea and tell us all about it! Most important of all, have fun!

Your organizing team *@SpaceUpToulouse*
– Anthony, Arnaud, Brigitte, Damien, Fabrice, Guillaume, Isabelle, Ludivine

SpaceUp: How it works

SpaceUp is an unconference, also known as a user-generated conference or a BarCamp. There are no spectators at SpaceUp, only participants.

All attendees are expected to give a demo, present a talk, or participate in a panel or roundtable. It's not as scary as it might sound, though. Sessions at SpaceUp are conversations, just like every conversation you've had (or wanted to have) at any other conference. The only difference is that the sessions can be planned on the spot, which means we're sure to be talking about topics we find interesting.

Registration and wrist-bands

On-site registration works a lot like any other conference; you'll receive a wrist-band (keep it on your wrist at all times!), a schedule, and maybe some goodies at the front desk. You'll also receive a name badge to personalize: these are important at SpaceUp. Other attendees are here to meet you, and you're here to meet them. Primarily you should write your name on it, but you should feel free to customize your badge to better reflect who you are.

Introductions

Each day of the SpaceUp will start in the Vega room with the presentation of all who have registered on the grid for a session that same day. You have one sentence to describe what your session will be about. Choose it wisely: it will help determine how many attendees you will get in your session!

The Session Grid

SpaceUp has many sessions going on at the same time. The only way to keep up with them all is the session grid, a giant board with all the available sessions listed on it.
The session grid starts out empty at the beginning of SpaceUp; only breaks and a few special sessions are scheduled beforehand. Sessions are proposed by writing a synopsis on a post-it and sticking it in one of the slots on the grid. The grid fills up quickly over the course of the morning, but it grows and changes as the day goes on and more ideas surface. It is fine to change your mind and replace or edit your suggestion throughout the event.

A session can take a few different formats: a presentation with Q&A, a demo, a panel of experts, or a roundtable. Some of the most interesting sessions are proposed as open-ended questions. ("Should NASA continue developing hardware?" "What's the cheapest way to do science in space?"). Project demonstrations make great sessions, too, especially when they're hands-on.

There should be at least one session about SpaceUp itself, to talk about what we can do better, both on the spot and for the next SpaceUp. You're more than welcome to start other sessions about SpaceUp, especially if you think there's something wrong.

T-5 Talks and other presentation formats

If you're itching to give a presentation with slides, we have just the format for you: it's called Ignite. Each speaker gets 5 minutes to talk, with 20 slides that rotate automatically every 15 seconds.
At SpaceUp, we call our Ignite-format talks T minus 5.

If you need even more time you can use a 'normal' free-format 25 minutes slot. Please bear in mind that all slots end 5 minutes prior to the following slot, to allow people to move from one room to another. Presentations start at their designated hour. Room moderators will take care all talks start and end sharply on time.

WiFi and Internet access

Everyone will be given on the first day a personal login and pass to use to connect to WiFi on site. Here is the name of the network to look for: **Wifi Cité Espace**

Further information

For more information you can always contact one of us. Obviously you can also have a look at the spaceup.org worldwide website or the spaceup.fr website.

In case of an emergency you should contact us, see below phone numbers.

Cité de l'Espace address and phone number

Address: Avenue Jean Gonord, 31200 Toulouse, FRANCE.

Phone number: +33 (0) 5 67 22 23 24

SpaceUp team phone numbers

Isabelle : +33 (0) 6 70 74 05 04

Brigitte: +33 (0)6 88 06 13 90

Guillaume : +33 (0) 6 78 90 62 32

Program Day 1

Saturday 20/9 Time	**Program**	**Location**
09:00 – 10:00	Registration and morning coffee	Central hall
10:00 – 10:15	Introduction	Room Vega
10:15 – 10:30	Welcome by Cité de l'Espace	Room Vega
10:30 – 11 :05	T-5 talks	Room Vega
11:05 – 11:35	Special guest: Philippe Gaudon	Room Vega
11:35 – 11:50	Session grid explanation	Room Vega
11:50 – 12:00	Practical instructions for lunch	Room Vega
12:00 – 13 :55	Lunch + exhibition visit + **fill the grid!**	Central hall + Astronaut Café
13:55 – 14:00	Grid sessions presentations	Room Vega
14:00 – 15:40	Grid sessions – SEE GRID	Session rooms
15:40 – 16:00	Special guest: Leopold Eyharts	Room Vega
16:00 – 16:20	Coffee break	Central hall
16:20 – 17:40	Grid sessions – SEE GRID	Session rooms
18:00 – 18:45	Projection in the Planetarium	Planetarium
18 :45	Day 1 closing	

Program Day 2

Sunday 21/9 Time	**Program**	**Location**
09:00 – 09:25	Morning coffee + **fill the grid!**	Central hall
09:25 – 09:30	Grid sessions presentations	Room Vega
09:30 – 10:00	T-5 talks	Room Vega
10:00 – 10:30	Mathieu Isidro - SKA	Room Vega
10:30 – 11:00	Special guest: Hervé Stévenin	Room Vega
11:00 – 12:00	Grid sessions – SEE GRID	Session rooms
12:00 – 13:00	Lunch	Espace 149
13:00 – 15:00	Grid sessions – SEE GRID	Session rooms
15:00 – 15:30	Closing ceremony	Room Vega

Please note that none of the program items are mandatory, so feel free to take a break whenever you want!

SpaceUp Toulouse organizing team

Ludivine Boche-Sauvan - *@astro_Felicette*

Ludivine is PhD candidate in space industry. Interested in science discoveries since childhood, she aimed later on to work IN space (well at least in its industry or agencies…). Following this path she went to an engineering school, but also space summer schools (CVA, FFG Alpbach, ISU SSP) which emphasised her vocation for this international, dynamic … and very cool domain !

Isabelle Desenclos - *@idariane*

Space exploration enthusiast and aerospace engineer. Quality engineer on Gaia satellite. Experience on launch campaigns in Baikonour and Kourou. Writer of the french blog "Rêves d'espace" (http://reves-d-espace.com/)

Anthony Lécossais - *@ScottNyood*

Aerospace engineer and spaceflight geek. Anthony's dream job ? Construct the X-wing !
Creator of SpacetheBeyond Tumblr http://spacethebeyond.tumblr.com/), VIP visitor of the CSG (French Guyana Space Center, thanks to CVA) and former president of 3AF Space Tourism study group, Anthony is also truly fan of scuba-diving and underwater photography.

Brigitte Bailleul - *@Brigitte_Ba*

Brigitte freelances as a translator, including for ESA, and was one of the organizing members of SpaceUp Paris. VIP visitor of ESO's Very Large Telescope in Chile, and invited by NASA to the final launch of a space shuttle, she doesn't have a scientific mind, but has been passionate about space and aviation since she was young.

Arnaud Demay - *@A_Demay*

As a mechanical engineer, Arnaud always wanted to work for the spatial field. After being at EADS Astrium and Arianespace, he works now at the CNES/DLA for a subcontractor where he realizes studies for the “launcher safety” department. You can also meet him regularly during a #CNESTweetup in Paris. He has a dream for a long time: working as close as possible to a launch campaign in Kourou…

Fabrice Desenclos - *@webrodeur*

Subcontractor for Airbus, and geek sci-fi. Owner and editor of the french blog “Rodeur.info“

Guillaume Delamare

Guillaume is an applied physics engineer currently working towards a PhD in power electronics for telecom satellites. He also happens to be quite a massive nerd about many topics mostly related to energy issues and electrical engineering, amongst which space technology is obviously not the least. Has spent so much time reading stuff on the Internet that he can speak virtually without stopping for hours (thank you, Wikipedia!).

Damien Hartmann - *@tHe_LaMaN*

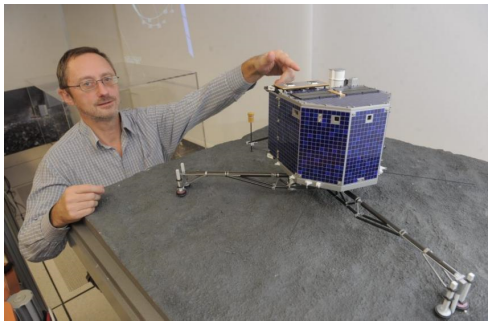
Damien is a sales representative in the IT industry. He has been passionate about space for as long as he can remember, and has been sure he will one day go into space since Space Ship One first suborbital flight in 2004. He is now actively engaged in projects where he plans to make a difference to bring more humans into space.

Leopold Eyharts, ESA Astronaut

Leopold Eyharts' first flight to space was a Franco-Russian mission called Pegase to the Russian Mir Space Station (29 January to 19 February 1998). Léopold Eyharts then performed various French experiments in the area of medical research, neuroscience, biology, fluid physics and technology.

His second spaceflight was a nearly two-month ISS mission to deliver the European Columbus laboratory to the International Space Station. He flew to the ISS on 7 February 2008 with Space Shuttle Atlantis (STS-122) as part of the Expedition 16 resident crew.

Philippe Gaudon, Rosetta Project Manager



Philippe Gaudon received a PhD in planetology at the Toulouse Science University in 1988 and subcontracted afterwards for CNES, the French space agency, before joining the CNES in 1991 on a remote sensing satellite project.

Philippe has been working on the French contribution for Rosetta since 2001, and has been Rosetta's project manager for CNES since 2005.

Working on a mission such as Rosetta was Philippe's very early goal since he's always been passionate about planetology. In his own words, Rosetta is "a splendid mission", and he's looking forward to even more ambitious missions, such as bringing back samples or sending astronauts on Mars.

Thomas Pesquet, ESA Astronaut

Thomas is a commercial pilot for AirFrance, where he started flying the Airbus A320 in 2006.

Thomas was selected as an ESA astronaut in May 2009. After graduation, he worked as a Eurocom, communicating with astronauts during spaceflights from the mission control centre.

To be ready for a space mission, he received further technical and operational training in Europe, Russia and the USA.

On 17 March 2014, Thomas was assigned to a long-duration mission on the International Space Station. He will be leaving our planet for six months in 2016.

Hervé Stévenin, ESA Astronaut Trainer

Hervé Stevenin leads ESA's Neutral Buoyancy Facility Operations and the EVA Training Unit at the European Astronaut Centre in Germany.

He is ESA's spacewalk instructor for European astronauts and leads the team that develops and implements spacewalk training at EAC. Hervé also is ESA's Zero-G Instructor for European astronauts in parabolic flights and serves as Eurocom, the European Capcom that communicates from Columbus Control Centre with astronauts in orbit.

In September 2014, Hervé served as Aquanaut crew member on NEEMO 19 with ESA astronaut Andreas Mogensen, simulating deep-space exploration off the coast of Key Largo, Florida.

Partners

The Cité de l'espace is a unique place where the desire to share information on the space adventure, in the world and in Europe, has become reality

The Cité de l'espace is located in the heart of Europe's space capital – Toulouse, a prize position that allows it to share with the public this incredible human and scientific adventure and its daily developments.

The Cité de l'espace is unique in the world, fusing a variety of different professions and purposes. Its ambitions include sharing developments in space and astronomy with the greatest number possible, inspiring a desire to learn more, stimulating interest in space careers, providing news and updates on space and astronomy, contributing to the tourist appeal of Toulouse and the region.

The Cité de l'espace was revamped in 2012, bringing it in line with developments in society and in space

Over a year ago now, the Cité de l'espace embarked on a long journey of metamorphosis, making it available to everyone and anchored in current development. The Cité de l'espace offers the public the opportunity to discover contemporary space and astronomy activities, meeting new expectations from both adult and child visitors.

The Cité de l'espace is continuing its development with one goal in mind: to offer unprecedented, unique, accessible and authentic scientific experiences to all, from curious minds to dreamers and enthusiasts

The sky and space are of interest to a great many people for a variety of different reasons and the Cité de l'espace has always aimed to satisfy the greatest number possible. Whether by opening a dome up to better understand the sky, or simply appreciating the beauty of celestial bodies, the Cité de l'espace's new approach combines specialist knowledge, sensory experience, scientific culture, simplicity, contemplation, curiosity and authenticity.

Allowing everyone to get ever-closer to the reality of space

The Cité de l'espace will retain all of the key elements that lie at the heart of its success, such as the 'scale 1' spacecraft that immerses visitors in space and lets them play at being astronauts, audiovisual shows that take audiences on a white-knuckle ride through the depths of the Universe and simulators that help young and old embark on a real space adventure.

Airbus DS

Founded in 1998 as a non-profit association, the CVA brings together European cities, "Ariane Cities", and partner industrial firms working in European space transportation. The CVA enables them to build up cooperation, keep elected representatives and citizens informed about Europe's space activities and help train tomorrow's space-sector professionals.

COMMUNAUTÉ DES VILLES ARIANE
COMMUNITY OF ARIANE CITIES

It encompasses multiple missions, among others:

- Reach out to Europe's citizens to inform them about space transportation issues, the extensive know-how of the aerospace industry and the role it plays in the various Ariane Cities
- Facilitate long-term cooperation between Ariane Cities, firms, space agencies, research institutes and the world of education
- Provide programs covering technical, cultural and educational subjects

The CVA also offers multiple educational programs, like the **Summer School** (an annual 4-week programme targeting university students and young engineers), **Professionals' Visit to the CSG**, **Science Holidays** (an annual 10-day programme for 15-17 year olds), **Intercultural Seminars** and **REVA (Educational Network of Ariane Cities)**, a 3-day programme to encourage the exchange of ideas and sharing of experience among secondary-school, university and professional-training staff.

www.ariane-cities.com

INGÉNIEURS ARTS & MÉTIERS ParisTech

The "Fondation Arts et Métiers" aims at facilitating access to scientific and technological culture, to promote research and education in these areas, to promote the work of engineers in economic activities, and to contribute to the remembrance of techniques and industries.

The Foundation awards Prizes encouraging academic excellence of engineers and/or PhD students of the "Ecole Nationale Supérieure d'Arts et Métiers", as well as loans for post-diploma studies or for new business start-ups.
The "Fondation Arts et Métiers" is closely linked with the "Société des Ingénieurs Arts et Métiers". With 32 000 former students of Arts et Métiers ParisTech, it is the largest European association of engineering graduates of a single institution. Its missions are to assist its members in case of difficulties, advising Arts et Métiers engineers in their careers, and to keep alive the spirit of brotherhood and solidarity that drives its members.
The association has a Job & Career Center which provides advice, guidance and information. This service passes along job offers, provides information on internships, psychometric tests, background information on companies, recruitment consultancy services, career management...

www.fondam.org

The Square Kilometre Array (SKA) project is an international effort to build the world's largest radio telescope, with a square kilometre (one million square metres) of collecting area. The scale of the SKA represents a huge leap forward in both engineering and research & development towards building and delivering a unique instrument, with the detailed design and preparation now well under way for start of construction in 2018. As one of the largest scientific endeavours in history, the SKA is bringing together a wealth of the world's finest scientists, engineers and policy makers to bring the project to fruition.

The SKA will use hundreds of thousands of radio telescopes, in three unique configurations, which will enable astronomers to monitor the sky in unprecedented detail and survey the entire sky thousands of times faster than any system currently in existence. The SKA telescopes will be co-located in Africa and in Australia.

www.skatelescope.org

Run by space professionals, Space Careers is a specialist niche jobs board designed to assist the space industry players with their recruitment issues on a worldwide basis. Space Careers has now become the world's largest Space Jobs Bulletin Board with more jobs available in this sector than any other jobsite.

Our purpose is to help those who are involved with the space industry manage their careers more effectively by bringing them the best information from the most reliable sources and to provide them with this information quickly, accurately and efficiently. In addition to its Jobs and CVs databases accessible through our Jobs Center, Space Careers provides an extensive collection of links to the major players in the space industry. Many of them advertise their vacancies on this site. We also offer a number of useful resources to improve your job search.

www.space-careers.com

The International Space University is a private non-profit institution, formally recognized as an institute of higher education in France by the French Ministry of Education. It specializes in providing graduate-level training to the future leaders of the emerging global space community at its Central Campus in Strasbourg, France, and at locations around the world. In its two-month Space Studies Program and one-year Masters program, ISU offers its students a unique Core Curriculum covering all disciplines related to space programs and enterprises, space science, space engineering, systems engineering, space policy and law, business and management, and space and society. Both programs also involve an intense student research Team Project providing international graduate students and young space professionals the opportunity to solve complex problems by working together in an intercultural environment.

Since its founding in 1987, ISU has graduated more than 3700 students from over 100 countries.

isunet.edu

ESA is an intergovernmental organisation, created in 1975, with the mission to shape the development of Europe's space capability and ensure that investment in space delivers benefits to the citizens of Europe and the world.

ESA has 20 Member States: Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland and the United Kingdom, of whom 18 are Member States of the EU.

By coordinating the financial and intellectual resources of its members, ESA can undertake programmes and activities far beyond the scope of any single European country.

ESA develops the launchers, spacecraft and ground facilities needed to keep Europe at the forefront of global space activities.

www.esa.int

Founded in 1961, the Centre National d'Etudes Spatiales (CNES) is the government agency responsible for shaping and implementing France's space policy in Europe. Its task is to invent the space systems of the future, bring space technologies to maturity and guarantee France's independent access to space.

CNES is a pivotal player in Europe's space program, and a major source of initiatives and proposals that aim to maintain France and Europe's competitive edge.

It conceives and executes space programs with its partners in the scientific community and industry, and is closely involved in many international cooperation programs—the key to any far-reaching space policy.

www.cnes.fr

ESO is the foremost intergovernmental astronomy organisation in Europe and the world's most productive ground-based astronomical observatory by far. It is supported by 15 countries: Austria, Belgium, Brazil, the Czech Republic, Denmark, France, Finland, Germany, Italy, the Netherlands, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

ESO carries out an ambitious programme focused on the design, construction and operation of powerful ground-based observing facilities enabling astronomers to make important scientific discoveries. ESO also plays a leading role in promoting and organising cooperation in astronomical research.

ESO is the European partner of a revolutionary astronomical telescope ALMA, the largest astronomical project in existence. ESO is also currently planning the 39-metre European Extremely Large optical/near-infrared Telescope, the E-ELT, which will become "the world's biggest eye on the sky".

www.eso.org

Cité de l’Espace Map