

# ESI 2015 – Final report

December 2015



## Annexes:

- Press kit
- Press book

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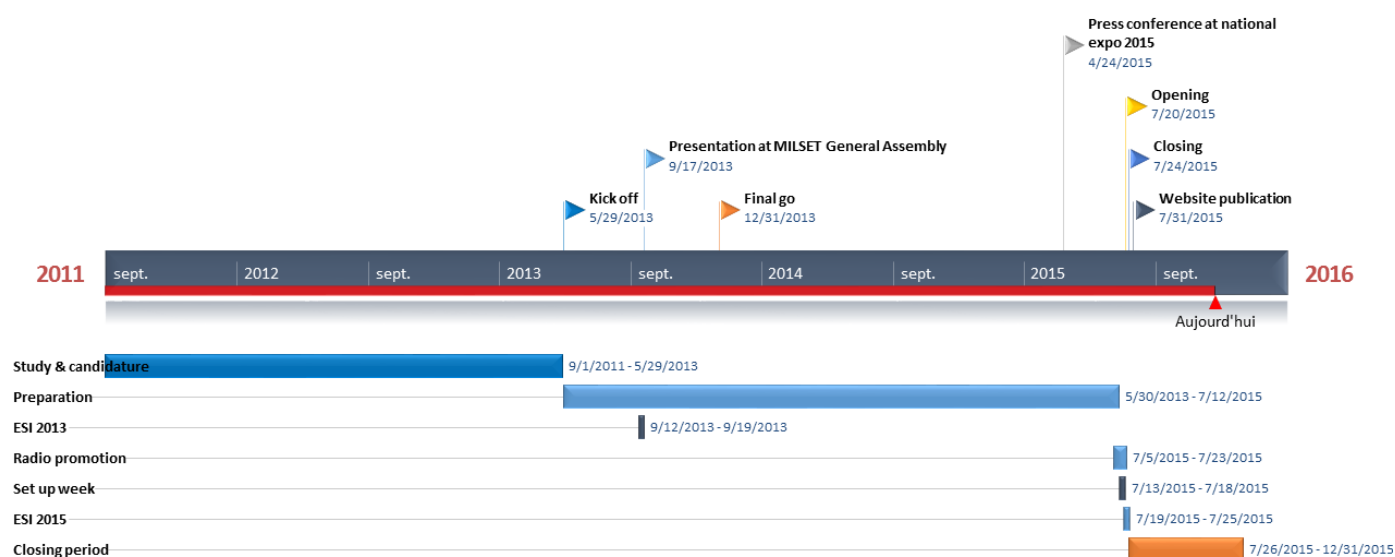
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# Introduction

The MILSET Expo-Sciences International 2015 (ESI 2015) took place between 19<sup>th</sup> and 25<sup>th</sup> July 2015 in Tour & Taxis, Brussels, Belgium, welcoming 83 delegations with 908 participants originated from 52 countries.

They were proposed a complete boarding including catering, accommodation, local transport and a full time programme of activities during this period.

The ESI is an over-4-years science story starting from the wish to the last action of its realization.



## Patron

Till the end of his mandate, ESI was under the sponsorship of the Belgian Prime Minister, Elio Di Rupo. From that moment, ESI was under the sponsorship of Philippe Busquin, Honorary Chairman of the Young Belgian Scientists and former European Commissioner for Research.

*Photo (from left to right): Antoine van Ruymbeke, ESI 2015 Director, Roberto Hidalgo, MILSET President, Elio Di Rupo, Belgian Prime Minister, Guy Severs, JSB President, Philippe Courard, State Secretary in charge of Research, Philippe Busquin, JSB Honorary President, Philippe Metens, Director of the Belgian Science Policy*



# Organisation

The convention to host ESI in Belgium was signed by Roberto Hidalgo, MILSET President, and Guy Severs, JSB President, in May 2013 and Carole Charlebois has been appointed to seat within the Executive Committee on behalf of MILSET.

## Organisers

### Jeunesses Scientifiques de Belgique (JSB)

Because science, it's first of all curiosity...

Youth organisation active since 1957, our organisation has taken up the challenge to develop attractive activities for young people to make them discovering the world through the scientific process and exploring the scientific process by observing the world!

The Young Belgian Scientists' main objective is to generate the taste for science to the youth without any form of elitism. Willing to contribute to the development and the scientific culture of the citizens-adults of tomorrow.

In this view, we organise trainings, workshops, camps, playgrounds, expos, and more for the youngsters willing to deepen their scientific knowledge or, simply, having some fun making science. Specific trainings are also organised for our future animators and teachers in a continuing education.

Our organisation is active at international level and a founding member of MILSET (the International Movement for Leisure Activities in Sciences and Technology).

From Robotics to summer camps, from internships to the Science Fair, find on this site more about our programme of activities on: <http://www.jsb.be>.



### Mouvement International pour le Loisir Scientifique et Technique (MILSET)

The International Movement for Leisure Activities in Science and Technology (MILSET – Mouvement International pour le Loisir Scientifique et Technique) is a non-governmental, non-profit and politically independent youth organisation, which aims at developing scientific culture among young people through the organisation of science-and-technology programmes of high quality.

MILSET was created during ESI 87, the first International Science Fair held in Québec in 1987. Then, due to its constant growth, various Regional Offices were progressively established:

- MILSET Amlat (Latin America)
- MILSET Africa
- MILSET Asia
- MILSET Europe
- MILSET Noram (North America)
- MILSET Vostok



## MILSET vision

Inspiring youth through science and technology initiatives.

## MILSET mission & objectives

MILSET supports its member organisations to engage youth in science, technology, engineering, mathematics and the arts (STEAM) through motivation, cooperation, collaboration, and networking. We do this by:

- Helping member organisations create a local or national environment to motivate youth to be involved in STEAM;
- Connecting, supporting, and representing member organisations around the world;
- Stimulating and supporting international youth networking and cooperation through STEAM; and
- Providing member organisations with global opportunities to engage youth in STEAM.

As a member of the world civil society, MILSET is also a stakeholder in the current revolution of the Technologies of Information and Communication, and advocates the free sharing of knowledge and the building of true knowledge sharing societies, a stand exemplified in its participation to the parallel events to the World Summit on Information Societies through the World Youth Congress on Information and Knowledge Society.

Thanks to MILSET, tens of thousands of young people have already met to exchange and make the most of their creations, discuss with researchers, youth leaders and industrialists. They have developed projects together, discovered foreign languages and cultures, and have been trained to acquire new technologies.

Joining MILSET is adhering to its charter, that of a movement which is concerned about today's world, participates in the local development of scientific and technical education in leisure time, promotes international cooperation, sustainable development, citizenship and peace, by practicing sciences and technology in a spirit of respect, understanding and solidarity within different geographic and spiritual communities.

MILSET is an official partner of UNESCO.

More information on <http://www.milset.org>

## Team

### ESI Executive Committee

- Antoine van Ruymbeke, Chairman, Board member at JSB and MILSET, coordinator of the cells connected with HR and the event realisation (programme, logistics, participants, activities)
- Carole Charlebois, Vice-President at MILSET, made the follow up of registrations and fees payment in collaboration with the organising committee and the MILSET regional offices
- Frédérique Neuville, Project Coordinator at JSB, coordination of the cells connected with the public and the partners (communication, fundraising)
- Gaetane Van Caubergh, General Secretary at JSB
- Noémie Roger, Advisor Scientific Research and Policy at Brussels Capital Region (From November 2014)
- Yves Bourdeau, Board member at JSB, responsible of the financial aspects

### ESI Organising Committee

- Antoine van Ruymbeke, Coordination & HR
- Denisa Kaluzova, Participants and activities
- Elena Fomenko, Accounting
- Frédérique Neuville, Partners and communications
- Frédérique Dumont, Activities
- Géraldine Tonet, Transports and catering
- Grégoire Padilla, Red line
- Laura Mathijs, Facilities
- Odile Tonet, Catering
- Sebastian Kopp, Accommodation
- Sébastien Rush, Facilities

### Coordination

The kick off meeting with the majority of both committees was held on 29<sup>th</sup> May 2013 making the transition between the study/candidature/support raising part and the realisation part.

A meeting of both committees was held on 6<sup>th</sup> December 2013 to make a global status after a semester of work.

The Organising Committee was gathering once a month to make a complete overview and exchange about the different open points.

The Executive Committee was gathering on request to define the strategy and the guidance of the event (approximately every 3 months).

A Facebook Fan Page was created to communicate with the team and the volunteers and, during the event and the preparation week, mailing were sent and published every night with information.



## Volunteers

The registrations of volunteers has been open and the team was building up with about 46 volunteers for a total of 61 including a group of 3 volunteers from Brazil in view of the preparation of ESI 2017, 3 volunteers from Mexico, 2 from France, Czech Republic, Portugal and Slovakia, 1 from Jordan, Tunisia, Morocco, Denmark. Most of the volunteers had the experience on national or international events and remain on the expo for the full period.

The team was sufficient to cover the needs, the objective was to reach 75 persons which would have allowed some flexibility in the peak periods.

Local volunteers' policy was as following:

- Day collaboration from 13<sup>th</sup> July
- Partly boarded from 16<sup>th</sup> July
- Fully boarded from 18<sup>th</sup> July

Foreign volunteers' policy was as following:

- If crossing an ocean, from 16<sup>th</sup> July to 26<sup>th</sup> July (extra night to recover the jet lag)
- Otherwise, they were boarded from 17<sup>th</sup> July to 26<sup>th</sup>
- The host was taking in charge the period in Belgium but not the international flights.







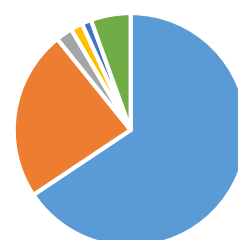
# Participants

## Figures

- 83 delegations
- 351 stands
- 908 participants
- 52 countries

### Per category

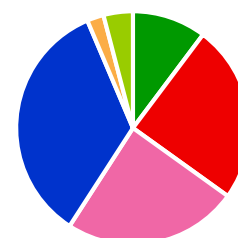
Participant	Supervisor	Partner	MILSET	Committee	Volunteer
596	214	21	15	12	50
65.64%	23.57%	2.31%	1.65%	1.32%	5.51%



■ Participant ■ Supervisor ■ Partner  
 ■ MILSET ■ Committee ■ Volunteer

### Per MILSET regional office

Africa	Amlat	Asia	Europe	Noram	Vostok
93	224	220	313	21	37
10.24%	24.67%	24.23%	34.47%	2.31%	4.07%



■ Africa ■ Amlat ■ Asia  
 ■ Europe ■ Noram ■ Vostok

## Per country

Region	Country	Organisation(s)	Persons	Stands
Africa	Algeria	Association scientifique astronomique Wilaya d'Alger Association des Petits Débrouillards Algériens - Batna	10	5
	Egypt	Ideasgym	5	1
	Morocco	As. des Petits Débrouillards de Fés pour le développement durable	6	2
	Nigeria	Genius Illumina	26	10
	South Africa	Eskom Expo for Young Scientists	4	3
	Tanzania	The International School of Tanganyika	2	1
	Tunisia	Association des Techniques de Robotique Association Jeunes Science de Tunisie	40	24
Amlat	Argentina	Fundación Solydeus Red Argentina de Ciencia , Tecnología y Comunicación	9	4
	Brazil	Movimentos pela ciencia e aprendizagem	19	8
	Chile	C.C. Club Ciencias Chile	23	7
	Colombia	Fundación red colombiana de semilleros de investigación	42	29
	Ecuador	Colegio particular Eugenio Espejo	7	2
	Mexico	Universidad Popular Autonoma del Estado de Puebla A.C. MILSET	72	23
	Paraguay	Colegio Nacional de E.M.D. Asunción Escalada Colegio Privado Bilingüe GIRASOLES Colegio Técnico Nacional y Centro de Entrenamiento Vocacional de Encarnación	38	17
	Peru	Consejo de Ciencia y Tecnología Global Escuela Ecocientífica Espacio Tierra	14	5
Asia	Hong Kong	Maryknoll Fathers' School	6	1
	India	Science Societies and Public (India)	22	5
	Indonesia	Indonesian Science Project Olympiad	3	1
	Iran	Shohadaye Karegar complex school	9	3
	Jordan	Jubilee School	5	2
	Kuwait	Kuwait Science Club MILSET Asia Petits Débrouillards tunisiens au Koweit Ministry of Education	43	26
	Oman	Oman National Commission for Education, Culture and Science Oman Science Club	17	9
	Palestine	Higher Council for Innovation and Excellence	2	2
	Saudi Arabia	Ministry of Education	8	5
	South Korea	Korea Science Service Science Technology Education Association	8	5
	Taiwan	National Taiwan Science Education Center	5	1
	Thailand	The institute for the promotion of teaching science and technology	41	9
	Turkey	İzmir Anadolu Lisesi Bornova Science High School	40	17

		Doganata Education Science Energy Engineering Fair Karşıyaka Anatolian High School Okyanus Egitim Kurumları Sanyolu High School		
	UAE	Emirates Science Club	11	4
Europe	Belgium	Jeunesses Scientifiques de Belgique Team Partners	103	20
	Bulgaria	Evrika Foundation	5	3
	Czech Republic	SSC Asociace malých debružárů České republiky National Institute for Further Education Sdružení na podporu talentované mládeže České republiky	35	10
	Denmark	The Danish Youth Association Of Science	1	0
	France	CIRASTI La Réunion des CCSTI	53	10
	Germany	Förderverein Technisch ökologisches Jugendprojektzentrum Rabutz e.V. Landesverband Saechsischer Jugendbildungswerke e.V.	18	8
	Hungary	TIT Kossuth Klub	6	3
	Italy	Federazione delle associazioni scientifiche e tecniche	13	4
	Latvia	Youth Foundation "Vertikale"	2	1
	Luxembourg	Fondation Jeunes Scientifiques Luxembourg	2	1
	Malta	NSTF	5	1
	Poland	High Tech Foundation	4	3
	Portugal	Associação Juvenil de Ciência	3	2
	Romania	"Dimitrie Bolintineanu" High School Cygnus Scientific Society - UNESCO Center	15	7
	Slovakia	Association for Youth, Science and Technology State Institute of Vocational Education Vedecká hračka	17	9
	Slovenia	Association for Technical Culture of Slovenia	2	1
	Spain	Instituto de Ciencia e Investigación juvenil de Aragón Instituto de Investigaciones Científicas y Ecológicas MAGMA, Associació per promoure la recerca jove	23	11
	Switzerland	Swiss Youth in Science	6	2
Noram	Canada	Réseau CDLS-CLS MILSET	12	6
	United States	Inquiry Facilitators (RoboRAVE International)	9	1
Vostok	Kazakhstan	Specialized lyceum №92 named after Mahatma Gandhi	11	4
	Russia	All-Russian Movement of Creative Teachers Advanced Educational Scientific Center of M.V.Lomonosov Moscow State University — A.N.Kolmogorov School School of the Future State Budget Vocational Institution	26	17

		Step into the Future (SITF)		
		<b>Total</b>	<b>908</b>	<b>355</b>

## Projects

Per type

Innovation	Research	Science communication
140	164	47
40.17%	47.00%	13.67%

Per category

Category	Quantity
Agricultural Science	10
Animal Science	3
Astronomy and Space Science	8
Chemistry	23
Computer Science and Applications	23
Earth Science - Geography and Geology	9
Energy	23
Engineering - Chemical, Metallurgical	5
Engineering - Civil	3
Engineering - Electronics, Electrical	51
Engineering - Industrial	7
Engineering - Mechanical	18
Environmental Science and Ecology	39
Food Sciences and Food Technology	3
Health Care	14
Marine Science	5
Mathematics and Statistics	5
Medical Sciences	21
Physics	20
Plant Sciences	16
Recycled Materials	6
Scientific Teaching Aids	5
Social and Psychological Sciences	21
Tourism opportunities, including ecotourism	1
Other	4
Partners	8



Per title

Title	Country
3D printer	Tunisia
A look at the cultural consumption in youtube : popular, narrative and industries.	Colombia
A research on the effect of gallic acid on lung cancer cells	Turkey
A road from heat to electricity	Turkey
A sundial in every school	Morocco
Air pollution indicator	Algeria
Alternatives for pest control in gardens and orchards.	Paraguay
Analysis of the behavior of a grid connected photovoltaic system	Colombia
Animated representation of blood flow project	Algeria
Antimicrobial activity of streptomyces spp . isolated from soil in the department of antioquia	Colombia
Antiscald adaptative device for blind people	Argentina
apaBoard - multi-tool for easy-build devices ready for IoT	Hungary
Application and effect of plant wound dressing using rubber solution, shale and medicinal herbs	South Korea
Argovia Capsule	Paraguay
Arsenic	Spain
Artificial intelligence for the game	Germany
Artistic gymnastic meets physics - rotation in sports	Germany
Automatic Car lifting Machine	United Arab Emirates
Automatic Drill	Saudi Arabia
Automatic Dust Cleaning System for PV panel	Oman
Automatic Repairing Truck	Oman
Automatic round-the-clock water leakages monitoring and signalling system	France
Automation of a hospital room	Italy
Bad nicotine	Kuwait
Baumgarten- the flying forester from Gruena	Germany
Between planes	Spain
Biogas from biomass (Comparative study)	Gambia
Bioindicator - black maple ( Rhytismaacerinum ) at selected locations in eastern Slovakia	Slovakia
Bioscabicide – an alternative bio-remedy for the existing toxical-chemical treatment for scabies	Romania
blindman helper	Kazakhstan
Blue Box	Saudi Arabia
Blue light reduction with limited color distortion	Taiwan
BOLD Gadgets	Palestine
Born a Sprinter	South Africa
Bread &... Milk	Italy
Calcium dibasic phosphate effects over harmful algae proliferation	Paraguay
Cell's temperature	Kuwait
Change of blood glucose levels in mice after drinking colas vs concentrated juice powder	Paraguay
Changes in the color of fermented yogurt with various indicator	South Korea
Chess in Early Education	Paraguay
Chia: a pre-columbian cure	Canada
Clean Energy	Mexico
Cocoon Classification Machine	Thailand
Cola Clock – The Colorful Analogish Clock	Germany
Cold Natural Sterilization through Electromagnetic Radiations and Vacuum for Aliments	Italy
College Biotechnology: The seeds of change	Mexico



Combustion analysis of a fluid through a conical nozzle	Colombia
Comeback	Tunisia
Comparing of the Efficiency of Coarse Extraction of Herbs in Terminating Coptotermes gestroi Washmamin Para-rubber Plantation	Thailand
Comparison of Heavy metal adsorption levels according to food and cooking methods	South Korea
Compatible architecture with environment	Iran
Compensatory Arm	Saudi Arabia
Conversion of marine current power, the generator Electromar	Peru
Corel reef	Kuwait
Creating the plasmid vector as a probe for Candida albicans intron detection	Poland
Crunch cookie expectorants	Peru
Cryptographically secure detection of mirror worlds	Bulgaria
Cryptolog	Tunisia
Design and construction of an electric vehicle type formulates	Colombia
Design and organization of a strategy of school interaction	Paraguay
Design of a micro site (virtual herbarium) the representative flora of the municipality of sahagún for the teaching of natural sciences.	Colombia
Determining the antimicrobial capacity of essential oil obtained from tangerine peel impregnated zeolite and its usage as animal feed additive	Turkey
Development and innovation of techniques and products in pineapple cultivars	Brazil
Development animatronics for recreational physical rehabilitation therapies in children	Colombia
Development of a self-sustaining solar system focused on Interior lighting and charging mobile devices	Colombia
Development of prismatic Zinc-Nickel battery with high energy capacity	Turkey
Device Guard – an intelligent caretaker of sensitive electronic devices	Poland
Diagnosis and Monitoring of leprosy cases in the Basic Health Units of the Urban Zone in the City of Campo Maior - PI	Brazil
Diagnosis of sisar management - integrated rural sanitation, the Ceará state	Brazil
Diamentions being altered with vapor	Turkey
Diner watch	Tunisia
Don't blame the weather, adapt to the weather	India
Don't smoke! It's no joke!	Malta
Don't throw away that marker	Nigeria
Drone	Tunisia
Drosophila melanogaster as a model object in investigations of the retroviral influence on life expectancy	Russia
DSS to evaluate outsourcing IT security of critical public infrastructure to (MSSP)	Oman
Early warning	Kuwait
Ebola no more!	Canada
Ecological development of glue made of cassava (yucca)	Mexico
Ecology of flowering and pollination and state of populations of pulsatilla multifida (G. Pritzel) Juz. in Olekminsk region of Yakutia	Russia
Ecotecno - technology benefiting consumers	Brazil
ECOTILE - Tiles of recyclable materials from polymer alloys	Brazil
Ecuador - All in one place: Conscious	Ecuador
Effect of light intensity on the rate of photosynthesis	Kuwait
Effects of cultures of phylum Ciliophor protista on the early development of monocotyledonous and dicotyledonous plant seedlings	Chile
Elaboration of baked tortillas made of breadfruit (Artocarpus altilis) flour	Mexico
Elctromagnetic crane	Kuwait
Electric bike	Slovenia
Electric Reel from a Direct Current Motor for Local Weavers	Thailand

Electrical battery for low potency devices made from lemon juice. (Pilanova)	Mexico
Energy Bar II	Paraguay
Energy-saving earthen steamer	Thailand
Environmental paper	Mexico
Environmentalist TiO2 coated nano-cloths -Acquirement of photocatalytic TiO2 nanoparticle covered textile cleaning itself	Turkey
Evaluation of disinfection efficiency of a solar uv- H2O2 coupled system with pilot-scale constructed wetlands for the treatment of domestic waste water for reuse	Colombia
Evaporative cooling systemed air conditioning	Turkey
eWaiter	Slovakia
Experimental design for the best aeration system in reservoirs to increase water quality	Turkey
Experimental monitoring of the water quality of the french river Garonne	France
Extraction and identification of acetigeninas in the fruit of avocado ( Persea americana mill) hass variety grown in southwestern Colombia .	Colombia
F.A.T.E (French American Team of Engineers) Robotics Collaboration	United States
Farmclean	Belgium
Fascinated physics	Czech Republic
Flood detector	Nigeria
Floor brick from laterite	Thailand
FLUMINOS - underwaterpower	Switzerland
Forklift magmatic	Kuwait
Foucault pendulum automation	Kazakhstan
Foundations for the development of EVyS software	Chile
Free Energy Vehicle	Nigeria
French American Team of Engineers	France
From bench to bedside	Spain
Fungal gold leaching of printed circuit boards from mobile phones	Mexico
Futonomous work of the heat gun	Russia
GAML03	Tunisia
Gas sensor applications with photonic crystal fiber and carbon dioxide sensor design	Turkey
Generateur Van dedraff	Tunisia
Generation of biogas from anaerobic reactors in domestic biodigesters	Chile
Genetic polymorphism of the perigord's black truffle : tuber melanosporum	France
Genetic study of jethys complex (Lepidoptera: Papilionoidea; Enantia) in Mexico through Barcode of Life	Mexico
Geological risk assessment in urban and rural areas	Peru
Getting the oil out	Kuwait
GPS tracking system for elderly or disabled people	Turkey
Growing mushroom micelles by the tissue cultures	Turkey
Gryphaea calceola, a look at marine Jurassic paleoecological Cerritos Bayos, Calama, Chile	Chile
H2S treatment in waste water by cultivated Rhodobactor capsulatus. on simple media	Thailand
High performance engine	Tunisia
Homium – Turn photos into beautiful stories	Russia
How a dream comes true	Kuwait
Hydroponics	Kuwait
Hydroponics	Tunisia
Hydro-power generator	Oman
Hypoglycemic and hypolipidemic effect in diabetic patients steviosides	Colombia
I Music	Tunisia
Imagine music	Tunisia

Implication of solar minimum Landscheidt for planet earth	Chile
Improving cleaning capability of the air purifying plant exploration with soil bacteria	South Korea
Improving indoor air quality	India
In our cultures, same water, multiple usages?	Belgium
Including horticultural sub-products generated in farmers markets for obtaining a protein-based nutritional supplement for animals, in the town of barrancabermeja - santander	Colombia
Induction of endothelial re-cellularisation with a fabric I vascular from their extracellular matrix using bone marrow stem cells differentiated in vitro	Colombia
Influence of chemicals on conifer seeds germination	Romania
Influence of fruit juices antioxidant composition in the prevention of oxidative stress	Spain
Influence of halotherapy for the health improvement	Iran
Inorganic chemistry: The game	Slovakia
Investigation of the cell proliferation effect of caffeic acid phenethyl ester (CAPE) in Head and Neck Cancer Stem Cell Line with XTT Assay.	Turkey
Invisible enemies	Paraguay
Irrigation advisor	Tunisia
Is it possible to create a fecalbiodegister of domestic use which is viable to be installed in a camping with the objective of obtaining gas from the fecal remains generated by the users?	Spain
Isolation and characterization of lignin degrading environmental fungi : a potential for production of fermentable sugars .	Colombia
Kamel	Tunisia
Kandelka - new quality of light. The private LED lamp project and research of light colour effect on users feelings.	Poland
Keep yourself straight!!!	Canada
Kuties	Palestine
Lag toilet mobile apps	Nigeria
Larvicidal effect of extracts of ricinus communis and ruta graveolens on larvae of aedes aegypti mosquitoes	Colombia
Laser guided vehicle control	United Arab Emirates
Learning in harmony	Mexico
LegoLOGO	France
Lepto-my-cells	Canada
Let me say butterflies are cer about taffetas	Colombia
Level Quality of life in people with disabilities in the Asunción's City, 2014	Paraguay
Lichen Alert	Portugal
Liquid Art - High speed photography	France
Locating Object & Images System	Mexico
Magnetron sputtering of the porous silicon coatings on metal surfaces	Russia
Manufacture of upper prosthesis by three-dimensional printing	Mexico
Merger of Technologies Photovoltaic Versus Solar Thermal Panels	Portugal
Method of early diagnosis of feline lower urinary diseases (FLUTD)	Argentina
Methods of molecular biology applied to the problem of preeclampsia	Slovakia
Microsolvation of o-anisid acid: theoretical study of their spectroscopic parameters	Spain
Middle German design competition (industry 4.0)	Germany
Mobile waiting queue application	Oman
Monograph study alternative sources of renewable energy for the sugar sector	Colombia
Mosquito repellant from neem leaves	Gambia
Mosquitoes favorite food today, tomorrow poison for them...! - We have obtained transgenic cyanobacteria very effective in bio-ecological control of mosquitoes	Romania
Moving by cold Leidenfrost Effect	France

Moving scenes	Czech Republic
Multipurpose intelligent solar station "FEBO II	Argentina
Music as you knew	Belgium
Music from the trash	Czech Republic
My hamster is a cyborg bio-energetics or just a small pet?	Romania
My Opinion on the Oeuvre of Andrei Nikolaevich Kasabiev, a painter and a sculptor	Russia
My own recycled room	Kuwait
Natulab	Paraguay
Natural sweetener from a base of beet	Colombia
Neither forgive nor forget. Photography documentary of the 1939 withdrawal	Spain
New generation fire extinguisher	Turkey
No-till farming	Slovakia
Oil extraction techniques project	Algeria
On periodic billiard trajectories in polygons an simple closed geodesics on tetrahedron, cube and octahedron	Switzerland
Oodles of Entonoodles : An Exploration of Entomophagy's Applications to Refugee Nutrition	Tanzania
Optic and electric cosmic rays basic detector	Mexico
PATHU - Agricultural spray human traction: a low-cost alternative to increase productivity and reduce the physical exhaustion of rural workers.	Brazil
Performance Comparison of MANETs Routing Protocols under UDP and TCP Traffic	Oman
Peri-urban settlements in the northeastern area of Medellin . institutional imaginary from the discourse of territorial sustainability	Colombia
Physical and chemical analysis of dry fillers products obtained from dried leaves of Terminalia catappa, calcium sulfate and acrylic styrene.	Paraguay
Physical experiments with beverage cans	Czech Republic
Physical experiments with cups and glasses	Czech Republic
Pissing and walking: towards cleaner energy sources	Mexico
Plan Filter	Kuwait
Plant irrigation control	Kuwait
Plastic from Banana	Kuwait
Playful physics for kids	Czech Republic
Plug into the air Wireless Electricity	Ecuador
Population assessment of the spotted lady's slipper (Cypripedium guttatum Sw.) in the Sakha (Yakutia) Republic, Russia	Russia
Potencial of Nostoc	Peru
Power Generation Through Resonance	Nigeria
Preparation and potential use of nanocarriers as antimicrobial agents: a new pharmaceutical alternative for human health	Mexico
Preparation of a bioinsecticide from the fungus Beauveria bassiana and Trichoderma lignorum for carrier ant control . ( caphalotes atta )	Colombia
Presentation of the project with the goal to restore the natural balance between the Varroa mites and bees, by iGEM Toulouse 2015	France
PRIMON S.R.L Company Plantmilk	Paraguay
Production of a recombinant lectin with anticancerigenic potential	Mexico
Project for the watering of a hillside on our school yard with the help of solar power	Germany
propeller efficiency	Belgium
Pumpedstoragehydro power station	Germany
QRInfoSystem	Bulgaria
Quality of life and Mental health in underage workers	Paraguay
Radio telescope	Tunisia

Rapid intervener	Kuwait
Redox in our live	Kuwait
Relationships in the crime pattern and cognitive style convicted of the offense of simple larceny	Colombia
Remot Ribare	Saudi Arabia
RemoteDoctor	Hungary
Reproduction of Gallo-Roman pottery	Luxembourg
Reversing decline of sparrow population in selected areas of Raipur, Chhattisgarh	India
Robot park	Kuwait
School mediation, a solution	Paraguay
Scientific toys among plants	Slovakia
Seagull wings	Mexico
Self-sustaining eco-house	Paraguay
SILED (Integral LED system)	Argentina
SIPREMS (Preparation System to High School)	Mexico
Sky flower	Russia
Slaves to Mobile Phones	Paraguay
Smart baby seat	United Arab Emirates
Smart bin	Oman
Smart design for building regarding save water	Iran
Smart parking	Kuwait
Smart school watch	Oman
Smart shop	Oman
Smart wearable alarm	Kazakhstan
Smoking	Colombia
So much work done, in the end went down the drain (design and construction of models that, in an innovative way, help to understand the coriolis effect and demonstrate what variables on his intensity depends)	Spain
Soccer player	Tunisia
Solar cell electricity generator using light intensity measurement system and reflectors	Thailand
Solar cooling by adsorption	Mexico
Solar enegery	Kuwait
Solar energy phone charger	Algeria
Solar farm with a rotation feature following the movement of the sun	Thailand
Solar Kits	Tunisia
Solarbot	Kazakhstan
Solar-poweredrailroad	Germany
Speed bump for electricity generation	Thailand
Standardization of PCR of helicobacter pylori segment 16s and realization of proof in direct DNA samples from gastric biopsies .	Colombia
Stationary mechanical waves: Characteristics	Mexico
Stella Jr.	Mexico
Stem cell	Kuwait
Street Barrier	Kuwait
Structure of the O-specific polysaccharides of Pseudomonas chlororaphis 449, B-108	Russia
Study of germination and growth dynamics of shallot and radish sowed after being influenced by EMF	Slovakia
Study of insecticidal properties of 'Kantari' (Solenam sertans)	India
Study of phosphate solubilizing capacity of rhizospheric fungi isolated from a Andisol	Colombia
Study of sucrose hydrolysis reaction kinetics by polarimetric method	Russia
Study of the properties of absorption and desorption of hydrogen in metal alloy storage in the solid state	Colombia

Study, analysis and realization of Pulvis: a new propellant for homemade rockets	Italy
Subliminal overlimits?	Romania
Sugarcane bagasse act as superabsorbent polymer	Indonesia
Suplimax bovine	Peru
Synthesis and analysis of copper substituted hydroxyapatite	Latvia
Synthesis and study of thermosensitive properties of cryogels	Russia
Synthesis of biologically active compounds using stereoselective catalysis	Czech Republic
Synthesis of Heteroarylazides via mw-Activated Cu(I)-Catalyzed substitution in heteroarylhalogenides.	Russia
Synthesis of imidazo[1,2- $\alpha$ ]pyridine derivatives steroids of the estrane's series	Russia
Synthesizing of the super-hydrophobic coating, which can be applied to all surfaces easily, simply.	Turkey
TAMM	Tunisia
Teaching codeless programming as a mean to increase awareness about it academic programs	Mexico
Teaching strategies to evaluate the teaching-learning process of English in grades two and three of the school auxiliadora marie	Colombia
Technology of making scaled sample of «Avtolet»	Russia
Temporary change araneofauna (arachnida : araneae) in a tropical forest fragment seasonally dry (btes) in the department of atlantic, Colombia	Colombia
Terraforming Mars	Chile
The antibacterial activity of Ziziphus nummularia leaves extract against bacteria	Jordan
The autonomous wooden cabin saves its energy!	France
The biologic pen	Tunisia
The biological activity of invasive species Solidago	Slovakia
The Cleaner Robot	Kuwait
The coal dust absorber	South Africa
The color of my land	Mexico
The Colorful Lines to Know the Period of Tire	Saudi Arabia
The development of a robot	France
The effect of radioactivity on living organisms	Hungary
The effects of the multiplication and division coefficients on the modified collatz conjecture	South Korea
The electronic school manager	Nigeria
The electronic walking stick	Nigeria
The European Union. A political and economical example of supranational integration	Spain
The green klondike	Canada
The impact of colors on the the weather	Kuwait
The influence of the light in the plants	Spain
The intelligent traffic control light	Nigeria
The magic lamp	Nigeria
The mechanical accumulator of the green energy	Russia
The Mechanical Arm	Kuwait
The military tactical thinking, a proposal for psychological measurement	Colombia
The mystery tour of sedimentation and fossilization	Hong Kong
The Philosophy teaching and the know thinking development with autonomy: an analysis of philosophy teaching in schools in Arapiraca/AL- Brazil	Brazil
The Photography, all a story?	Belgium
The Posodonie for mulching plants	Tunisia
The protection from lightning strikes project	Algeria
The study of biodiesel production from different Algae and Cyanobacteria	India
The sustainable cube	Canada
The tendency of violence on teenagers	Turkey
The Water Barometer	Russia



The Winsuit Flying	Belgium
Theoretical study of the molecular geometry and the bonding situations arising from the interaction between the BO radical and metallic centres	Spain
Thermo solar refrigerator	Nigeria
Tomatatoe	Russia
Triclosan health or hazard	South Africa
Understanding the experience of existential anxiety from the perspective of a student who belongs to a musical group from the city of Cartagena	Colombia
Use of agro-industrial wastes for the development of a biodegradable plastic	Mexico
Use of autonomous robotic telescopes in modern astrophysics and subsequent procesing of observed data	Czech Republic
Use of phenol crystal as a stimulant and developer on plant defense system	Turkey
Useful mathematics	Czech Republic
Using chemicals, exothermic reactions and Arduino technology to increase the efficiency of the life jacket	Jordan
Valorisation of natural ressources for improving hydroponics cultures of tomatoes	Tunisia
Vector parking functions and tree inversions	Bulgaria
Vitamin D and its seasonal variation	Slovakia
WarmCup	Tunisia
Warning waves	Kuwait
Water and sustainable development education	Morocco
Water desalination using electrodialysis	Egypt
Water epuration? And why not constructed wetland	Belgium
Water in the action	Czech Republic
Water leak prevention system	United Arab Emirates
We are transmitting the past to the future: Museums of Izmir are now in our pockets	Turkey
We don't know or we don't want use the energy of	Romania
We try to determine the origine of the water on earth	Belgium
Web Addiction	Paraguay
What is effect of the gel on hair	Kuwait
When the Universe was an Island	Chile
Where are my stuff	Tunisia
Wireless charger	Tunisia
Your personal house, a technological progress	Romania

## Registrations

The registration was opened online from 1<sup>st</sup> July 2014 till 18<sup>th</sup> July 2015. The follow up was done by Antoine and Denisa with the support of Carole in charge of validating the request for non-European organisations in coordination with the MILSET regional offices.

MILSET affiliated organisations (listed on <http://members.milset.org>) got a direct accreditation; other organisations needed an accreditation given by the MILSET regional office in charge.

The registration system used for previous MILSET events (ex. ESI 2013, ESE 2012) was improved and counted with a series of new functionalities (ex. a flight validation engine) and with a guidelines document.

Several standard documents were prepared, this includes: the invitation, the arrival check list, a series of emails answering usual questions (ex. visas, fees) to allow an easier and faster handling of the requests.

Missions were undertaken during summer 2014 to MILSET regional expos to promote the event and answer a maximum of questions to help the registration.

Registration deadline was set on 1<sup>st</sup> May 2015 and extended till 10<sup>th</sup> May. At that date, the maximum capacity (950 persons + team in line with the limits of the other cells, mainly accommodation and finance) was reached. Later registrations and cancellation were handled at the best effort following the evolution of the situation.

A series of last minutes cancellation (+-150 persons in the last 3 weeks) significantly impacted the budget.

## Check in

A check in process was set on arrival:

- Validation of the contact person details, all participants names, projects titles and flights details
- Validation of the fee coverage (in a locked room)
- Overview of the programme, the venue map and the stands number and location
- Badge, t-shirts and welcome packs
- USB key, registration document for the cultural evening and information about this activity

## Visas

The visa process was defined together with the Immigration Office which is responsible to issue them and a separated report has been provided. Contacts were taken with the foreign affairs to inform the embassies and consulates and a letter was sent each time a visa is requested. An information document was provided to the delegations impacted and support was given to the participants.

Some cancellation and difficulties were faced, mainly connected with the timing and last minutes procedures from organisations taking part to ESI

## Red line

A red line was set a month before the event and reachable 24/7 in view of welcoming all incidents, requests and needs. The number was provided to all participants before the event and was available on the badge.

It was mainly used for missing luggage.

## First aids

Four professional first aiders fully equipped provided a 24/7 permanency. First aid kits were available at all requested places (hotels, activities, etc.). A dedicated room was available at the expo and the hotels provided some support.

The closest hospital Saint-Jean Clinic was the emergency point located at walking distance (less than 2 km) from the venue and next to most of the hotels.

The large majority of the cases handled during expo were linked to a high exhaustion connected to the jet lag, the time of travel and the lack of sleep. One allergy to a fish-skin dress required a transfer to the hospital.

## Little Scientists

An area dedicated to the little scientists provided to the FIPD under the condition to receive a project of programme providing an added value to the event was foreseen for up to 100 participants.

An official letter was sent to the FIPD and two meetings were held to answers the question and precise the offer. Final negative answer was received from the FIPD after few reminders on 9<sup>th</sup> January 2015.

It was decided not to host the space without the support of the FIPD.

## Mobile services

### iCalendar

An online calendar has been created allowing the participants to synchronize it with their personal devices.

- ics: <https://www.google.com/calendar/ical/is876hsu5vnfie265npbp1u7ko%40group.calendar.google.com/public/basic.ics>
- xml: <https://www.google.com/calendar/feeds/is876hsu5vnfie265npbp1u7ko%40group.calendar.google.com/public/basic>

A second calendar was created for the team.

### Mobile App

A mobile app was created for the participants running under Android together with an HTML 5 mobile site compatible with smartphones and tablets.

It provided information about the event, the programme, the activities, the social networks, the contact points, etc.

- Period: 01/06/2015-01/08/2015
- HTML 5 mobile website
  - URL: <http://m.esi2015.be>
  - Visitors: 550
  - Page views: 2400
- Android app
  - URL: [https://play.google.com/store/apps/details?id=com.conduit.app\\_a8780ed226474221983194489159800c.app](https://play.google.com/store/apps/details?id=com.conduit.app_a8780ed226474221983194489159800c.app)
  - Installations: 97

# Programme

## Overview

	Sunday 19 July	Monday 20 July	Tuesday 21 July	Wednesday 22 July	Thursday 23 July	Friday 24 July	Saturday 25 July
	Participants	Leaders	Participants	Leaders	Participants	Leaders	Participants
07:00	Arrivals & registrations	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Departures
07:30		Transfer	Transfer	Transfer	Transfer	Excursion	
08:00							
08:30		Project setup	Information meeting	Expo	MILSET General Assembly	Expo	
09:00			Conference of Englight			Conference	
09:30		Young Citizens Conference on Energy	Expo	MILSET regional General Assemblies			
10:00					Virtual Expo-Sciences		
10:30							
11:00							
11:30							
12:00							
12:30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:00							
13:30	Project setup	Opening ceremony					
14:00							
14:30							
15:00							
15:30							
16:00							
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23:30							

The organisers were responsible of the delegations from Sunday 19<sup>th</sup> July to Saturday 25<sup>th</sup> July. Departure time for the participants flying away and hotel check out being independent on their departure or extending their stay. The accessibility of Brussels combined with the short distance to highly touristic spots (ex. Paris: 1h20 by train) comforted us on the quantity of participants extending their journey before and/or after ESI. The 21<sup>st</sup> July was the Belgian national day.

Mon 13	Am set up of the secretariat
Tue 14	Preparation week
Wed 15	Preparation week
Thu 16	Preparation week
Fri 17	Preparation week 12:30-13:30 Lunch 17:00-19:30 Visit of Brussels 19:30-21:00 Dinner in town

<b>Sat 18</b>	Preparation week <i>All day set up of expo finalisation</i> 10:00-12:00 Team info session 12:00-13:00 Lunch 13:00-14:00 Cells coordination 19:00-20:00 Test dinner	
<b>Sun 19</b>	All day Arrivals & check-in 12:30-14:00 Lunch 14:00-18:00 Project setup 18:00-19:30 Dinner 19:30 Transfer	
<b>Mon 20</b>	08:00 Transfer 09:00-12:30 Project setup 10:30-13:00 <b>Young Citizens Conference on Energy</b> 12:30-14:00 Lunch 14:00-15:30 <b>Opening ceremony</b> 15:30-20:00 <b>Expo</b> 20:00-21:30 Dinner 21:30 Transfer	09:30-10:30 Information meeting for head of delegations 10:30-13:00 MILSET Executive Committee meeting  15:30-16:30 MILSET Vostok, Africa Executive Committees meeting 16:00-18:00 MILSET Europe Executive Committee meeting 16:30-18:00 MILSET Amlat, Asia Executive Committees meeting
<b>Tue 21</b>	08:30 Transfer 09:30-11:00 <b>Conference on: "The unfolding of rational knowledge: from Galileo to contemporary Physics"</b> 11:00-18:00 <b>Expo</b> 12:30-14:00 Lunch 16:00-17:30 Conference on: "Importance of Scientific Culture for Young People" 18:00-22:30 <b>Brussels Night</b> 22:30 Transfer	08:30-11:00 MILSET Executive Committee meeting 11:00-12:45 MILSET Africa, Asia General Assemblies 13:00-14:45 MILSET Amlat, Vostok General Assemblies 15:00-18:00 MILSET Europe General Assembly
<b>Wed 22</b>	08:00 Transfer 09:00-12:30 <b>Expo</b> 11:00-12:30 <b>Conference on: "Digital Expo-sciences"</b> 12:30-14:00 Lunch 14:00-19:00 <b>Brussels Discovery Tour</b> 19:00-20:30 Dinner 20:30 Transfer	09:00-11:00 MILSET General Assembly 11:00-12:30 MILSET Executive Committee meeting 15:30-18:00 MILSET Board meeting 19:00-23:00 Gala dinner



<b>Thu 23</b>	08:00 Transfer 09:00-12:30 <b>Expo</b> 09:00-12:30 <b>Conference on: "How to motivate young people to embrace scientific careers"</b> 12:30-14:00 Lunch 12:30-14:00 Project dismantling 14:00-17:30 <b>Visits of the Museum of Natural Sciences / Parlamentarium</b> 17:30-23:00 <b>Cultural evening</b> 20:00-21:00 Dinner 23:00 Transfer
<b>Fri 24</b>	07:00-08:00 Transfer 08:00-18:00 <b>Excursion</b> 13:00-14:00 Lunch 18:00-19:30 <b>Closing ceremony</b> 19:30-21:00 Dinner 20:00 <b>Farewell party</b>
<b>Sat 25</b>	All day Departure <i>All day Visit of Bruges for foreign volunteers</i> 20:00 <i>Team dinner</i>

## Expo

The expo took place at Tour & Taxis and welcomed 780 visitors:

- On 20<sup>th</sup> July, 15:30-20:00 (Nocturne)
- On 21<sup>st</sup> July, 11:00-18:00 (Belgian National Day)
- On 22<sup>nd</sup> and 23<sup>rd</sup> July, 9:00-12:00

The expo counted with:

- 355 projects presented in stands of 2m (posters only) and 3m with a table and 2 seats
- European Year of Development village including
  - The media stand
  - A workshop area A Pen 4 Europe animated by Roman Kroke
  - The stand for two NGOs active in the development collaboration
  - The stand of Mediel which is coordinating the project
  - The projects fitting the topic
- The stand of Visit Brussels with touristic information & the stand of Rêves & Chocolats selling chocolates
- The stands to promote MILSET future events
  - The MILSET Expo-Sciences Europe 2016 and Exponum by CIRASTI, France
  - The MILSET Expo-Sciences Latin America 2016 by La Red, Mexico
  - The MILSET Expo-Sciences International 2017 by MILSET Brasil, Brazil
- An exhibition of the MILSET Science Photo Contest awarded pictures



## Official activities

### Opening ceremony

The opening ceremony took place at the theatre at Tour & Taxis on 20<sup>th</sup> July under the moderation of Stéphanie Coerten

The scenario was:

- Welcome word
- Video of introduction
- Speeches
  - Antoine van Ruymbeke, ESI Director
  - Claude Voglet, Federation Wallonia-Brussels, Advisor at the Minister of Education's office
  - Philippe Close, City of Brussels, Alderman for Tourism, Staff and Finance
  - Roberto Hidalgo, MILSET President
- Video presenting the participating countries
- Animation with a magician
- Conclusion word
- MILSET Anthem with raising of MILSET flag
- Opening of expo by cutting the ribbon by Antoine van Ruymbeke, Roberto Hidalgo and Claude Voglet

### Info meeting

The info meeting took place at auditorium at Tour & Taxis on 20<sup>th</sup> July. A full review of the programme and information to all supervisors were given in English and Spanish.

### Gala Dinner

The Gala Dinner took place at the Hotel de la Poste. It welcomed the heads of delegations, the organising committee, MILSET officials and providers. No partners' and sponsors' representatives attended it.

Some speeches took place together with a 3 courses meal and presents were given by some heads of delegations and the MILSET award was given to Jeunesses Scientifiques de Belgique.

### Closing ceremony

The closing ceremony took place on 24<sup>th</sup> July at the theatre under the moderation of Stéphanie Coerten.

The scenario was:

- Welcome word by the moderator
- Video presenting the attending countries
- Speech of Roberto Hidalgo, MILSET President
- Diplomas and medals to the participants (2 young delegates per delegation)
- Hand over to Brazil
- Closing speech of Antoine van Ruymbeke, ESI Director
- Rewards to the team

## Cultural & social activities

### Brussels night

This activity took place at the theatre at Tour & Taxis on 21<sup>st</sup> July (national Belgium day). It included a walking dinner and a series of animations (banner-bearer, Chinese mast, Gilles de Binche, minstrels Morandini, Bubble Team, Charles Quint & Isabelle of Spain, jugglers, balloon modellers, saxophone man, meanders), a flashmob by the team all following the rhythm of a DJ..

### Cultural evening

This activity took place at the theatre at Tour & Taxis on 23<sup>th</sup> July under the moderation of Grégoire Bertolino. Each country was given a spot of 3 minutes to perform and the dinner was held mid-way. The order was random to motivate the presence of all countries.

The participation was non-mandatory and delegations of a same country performed together. An USB key was given to each country during the check-in to provide their material and national anthems and professional videos were not authorised to keep to informal side of the activity.

### Maneken-Pis

This activity took place at the Brussels City Hall on 22<sup>nd</sup> July at 2pm. The Maneken-Pis dressed up with ESI costume mixing Einstein look and young approach with ESI logo.



The costume is numbered 933 in the official collection and the official ceremony welcomed words from:

- Karine Lalieux, City of Brussels, Alderwoman for Public Cleanliness and Culture
- Antoine van Ruymbeke, ESI Director
- Edmond Vandenhoute, Manneken-Pis order President

and was followed by the dressing of the statues.

A Facebook pool was organised to get people opinion about the different costume proposals and in February 2015 the submission of new costume was accepted by Manneken-Pis order.

## Brussels tour

This activity took place on 22<sup>nd</sup> July with the supports of VisitBrussels which provided the personalised maps. The approach was to define a series of key spots in town and provide standard journeys letting the participants free of their visit on foot. Volunteers were located on strategic spots (Place Sainte Catherine, Grand Place, Place de la Monnaie, Gare Centrale, Place des Palais) to inform and assist the participants.

Four volunteers were using bicycles to meet the group in town and provide them guidance and assistance if required.

Many participants extended their time in town and didn't return to Tour & Taxis for dinner.

## Mons 2015

This activity took place on 24<sup>th</sup> July. It consisted in a one-day excursion to Mons, European Culture Capital for 2015, participants were welcomed by:

- Elio Di Rupo, City Mayor, Former Prime Minister and Patron of ESI
- Philippe Busquin, JSB Honorary Chairman and Former European Commissioner for Research
- Antoine van Ruymbeke, ESI Director

The participants were able to enjoy social exchanges, and discover the city with a map and they get a lunch pack in a park. The journeys took place via a privatised train.

The city of Mons and Wallonia were supporting this visit.

## World record

This activity was foreseen to take place at Mons Expo on 24<sup>th</sup> July. A tentative to set a world record of the largest quantity of fluorescent hands was prepared. Contacts were taken to have validate it by the Guinness Book of Record but were unfruitful. Facing the little reactivity of the Guinness Book and the lack of time, the activity was cancelled.

A competition was set on Facebook to get people ideas with artisanal chocolate as reward.

## Scientific activities

### Young citizens conferences on Energy

This activity took place at the auditorium at Tour & Taxis on 20<sup>th</sup> July. It is part of the MILSET YCC programme which aims at expressing the voice of youth on a given topic.

About 150 participants join the conference.

### Conference of François Englert

This activity took place at the theatre at Tour & Taxis on 21<sup>th</sup> July under the moderation of Jeppe. François Englert, 2013 Nobel Prize Laureate in Physics and Honorary President of the Jeunesses Scientifiques de Belgique, gave a lecture and debated on the challenges of physics nowadays.

### Conference on science engagement

This activity took place at the auditorium at Tour & Taxis on 23<sup>rd</sup> July under the moderation of Virginie Claes and in collaboration with Innoviris and the Free University of Brussels on the topic “How to motivate young people to embrace scientific careers”.

A survey was sent to the attending delegations and several speakers from organisations, companies, universities and institutions presented different aspects of the topic:

- Nelawa Melanda, Region of Brussels-Capital
- Jeppe Willads Petersen, MILSET Europe
- Roberto Hidalgo, MILSET
- Pasquale Nardone, ULB
- Bram Vandenberght, VUB
- Paul Baekelmans, Agoria

### Conference on Digital Expo-sciences

This activity took place at the auditorium at Tour & Taxis on 22<sup>nd</sup> July. Babo Babakwanza from CIRASTI presented and made a demo of the platform Exponum which shall include the participants’ projects.

This conference was completed by a stand presenting Exponum.

### Natural Science Museum/Parlamentarium

This activity took place on 23<sup>rd</sup> July with the support of Belspo. Two visits were proposed:

- The Natural Science Museum (700 persons)
- The Parlamentarium of EU Parliament (200 persons with an audio guide in their language)



## MILSET activities

MILSET and MILSET regional offices meetings took place at Tour & Taxis all over the week. This include MILSET Board, Executive Committee and General Assembly meetings as well as MILSET Regional Offices Executive Committee and General Assemblies meetings.

An office was provided to MILSET for the whole period.

The facilities provided were the auditorium, Silva, Aqua, Terra and the MILSET office.

## ESI Tours

Information were provided to the participants interested to extend their stay in Belgium or in the neighbour countries. In particular:

- Paris
- Amsterdam
- Universal Expo in Milan
- Bruges
- Euro Space Centre (1 day excursion, in collaboration with the centre)

An organised day trip was proposed to Bruges on 25<sup>th</sup> July to all foreign volunteers.

# Logistic

## Facilities

### Tour & Taxis



The site of Tour & Taxis has been selected to host the event. Contacts with the owner have been taken to book the facilities which are shared by the Belgian National Expo since 2010. We used 2 scheds (large), 3 scheds bis (small) as well as, the Lieutenant where an office was set from 12<sup>th</sup> July.

The meetings took place in the IBGE building siding to the sheds and counting with a large auditorium and meeting rooms.

The setup took place from 12<sup>th</sup> to 18<sup>th</sup> July, the dismantling took place on 25<sup>th</sup> July.

The different areas were:

- Lieutenance
  - Preparation office
- Shed 3
  - Projects
  - Bar
- Shed 4
  - Entry
  - Locker room
  - Info Desk
  - Lounge with bar
  - MILSET Office
  - First aid
  - European Year of Development Village
    - Projects
    - Media stand
    - NGOs stand
    - Workshop area
  - Volunteer room
  - MILSET Science Photo Contest exhibition
- Shed 2bis
  - Theatre, 1100 seats
- Shed 3bis
  - Restaurant, round tables with 600 seats, 3 buffets
- Shed 4bis
  - Kitchen
  - Warehouse
- IBGE
  - Auditorium: 415 seats equipped with audio and video
  - Silva: 50 seats equipped with audio and video
  - Aqua: 25 seats equipped with audio and video
  - Terra: 25 seats equipped with audio and video

The set up was carried on by VISU/Eventum.

## Accommodation

The period is a low frequentation period for the hotel living on bureaucracy and business and the high season for the few ones living of tourism. The difficulty came from the number of bed and the approach was conducted following 4 parameters:

- The distance to the venue: ease of movement and reduced transport costs;
- The geographical dissemination: ease of transport and of coordination;
- The cost
- The hotels groups: ease of management (lower priority).

The preliminary contacts with the hotels were coordinated by Visit Brussels, the regional agency in charge of supporting initiative in the region, with which we have daily contact.

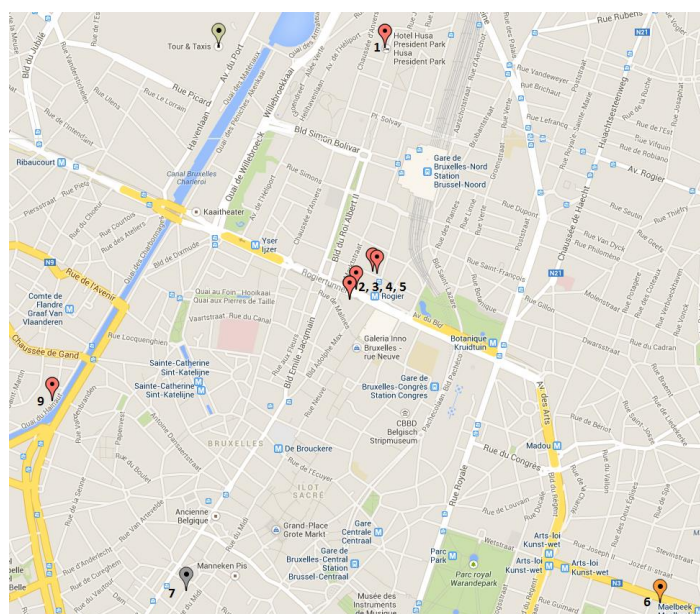
The contract with the listed hotel were signed in May 2014

Except the Thon EU, all hotels selected currently were within a 2kms range from the venue.

Hotel	Category	Rooms
1. Husa President Park	****	20 singles + 50 twins
2. Hotel Siru	***	25 twins
3. Hotel des Colonies	***	25 twins
4. Hotel le Dôme	****	10 twins
5. Thon City Centre	****	128 twins
6. Thon EU	****	66 twins
9. Meininger		202 beds in rooms up to 6
10. Condo garden		28 beds in rooms up to 6 (used for volunteers only)

The possibility for participants deciding to book their own accommodation were not discounted from the participation fees and were not transported if not in one of the listed hotels or on Rogier Square (including: Shareton, Hilton and Crown Plaza). It was only used per participants which register after the deadline and when the full capacity of boarding was reached.

Remark: Last minutes cancellations costed a lot as the possibility and the rates to cancel hotel rooms was connected to the date of cancellation. About 20 twin rooms were not cancellable and fully charged to the organisers.



## Transport

The approach was to limit a maximum the movement of all participants. The proximity of the hotels allowed to set shuttles during most of the transfer periods for a smooth approach.

The service was provide by Eurobussing except for the train to/from Mons provided by SNCB and the Flipco shuttle between Brussels South Train Station and Brussels South Charleroi Airport. The transport team faced a very high pressure on arrival day.

Date	Time	Journey	Quantity	Comment
Sun 19	All day	Charleroi Airport - Rogier - Thon EU – Meininger + Flipco	2	+100 persons
	All day	Brussels Airport - Rogier -Thon EU – Meininger	13	+600 persons
	12:00-20:30	Shuttle - Tour & Taxis - Husa President Park - Rogier	1	
	12:00-20:30	Shuttle - Tour & Taxis - Thon EU	1	
	12:00-20:30	Shuttle - Tour & Taxis - Meininger	1	

Mon 20	08:00	Husa President Park - Tour & Taxis	1	3 turns
	08:00	Rogier - Tour & Taxis	3	4 turns
	08:00	Thon EU - Tour & Taxis	2	2 turns
	08:00	Meininger - Tour & Taxis	2	3 turns
	21:30	Tour & Taxis - Husa President Park	1	3 turns
	21:30	Tour & Taxis - Rogier	3	4 turns
	21:30	Tour & Taxis - Thon EU	2	2 turns
	21:30	Tour & Taxis - Meininger	2	3 turns

Tue 21	08:00	Husa President Park - Tour & Taxis	1	3 turns
	08:30	Rogier - Tour & Taxis	3	4 turns
	08:30	Thon EU - Tour & Taxis	2	2 turns
	08:30	Meininger - Tour & Taxis	2	3 turns
	22:30	Tour & Taxis - Husa President Park	1	3 turns
	22:30	Tour & Taxis - Rogier	3	4 turns
	22:30	Tour & Taxis - Thon EU	2	2 turns
	22:30	Tour & Taxis - Meininger	2	3 turns

Wed 22	08:00	Husa President Park - Tour & Taxis	1	3 turns
	08:00	Rogier - Tour & Taxis	3	4 turns
	08:00	Thon EU - Tour & Taxis	2	2 turns
	08:00	Meininger - Tour & Taxis	2	3 turns
	20:30	Tour & Taxis - Rogier	3	4 turns
	20:30	Tour & Taxis - Thon EU	2	2 turns
	20:30	Tour & Taxis - Meininger	2	3 turns
	22:30	Hotel de la Poste - Husa President Park - Rogier	1	3 turns
	22:30	Hotel de la Poste - Meininger - Thon EU	1	2 turns

Thu 23	08:00	Husa President Park - Tour & Taxis	1	3 turns
	08:00	Rogier - Tour & Taxis	3	4 turns
	08:00	Thon EU - Tour & Taxis	2	2 turns
	08:00	Meininger - Tour & Taxis	2	3 turns
	13:00	Tour & Taxis - Museum of Natural Sciences	7	2 turns

	13:00	Tour & Taxis - Parlementarium	3	2 turns
	16:00	Museum of Natural Sciences - Tour & Taxis	7	2 turns
	16:00	Parlementarium - Tour & Taxis	3	2 turns
	23:00	Tour & Taxis - Husa President Park	1	3 turns
	23:00	Tour & Taxis - Rogier	3	4 turns
	23:00	Tour & Taxis - Thon EU	2	2 turns
	23:00	Tour & Taxis - Meininger	2	3 turns
<b>Fri 24</b>	08:00	Thon EU - Tour & Taxis	2	2 turns
	08:00	Meininger - Tour & Taxis	3	2 turns
	21:00-00:00	Shuttle - Tour & Taxis - Meininger - Thon EU - Rogier	2	+5 turns
	21:00-03:00	Shuttle - Tour & Taxis - Meininger - Thon EU - Rogier	1	+10 turns
<b>Sat 25</b>	All day	Charleroi Airport - Rogier - Thon EU – Meininger + Flipco	2	+100 persons
	All day	Brussels Airport - Rogier - Thon EU - Meininger	11	+500 persons

## Flights



An official airline network agreement has been signed with Star Alliance™ to allow cheaper rates for the participants. This allowed up to 20% reduction for their flights as well as for the flights undertaken during the preparation of the event.

The following Participating Carriers participate in this Agreement: Adria Airways, Aegean Airlines, Air Canada, Air China, Air New Zealand, Asiana Airlines, Austrian Airlines, Avianca, Brussels Airlines, Copa Airlines, Croatia Airlines, EgyptAir, Ethiopian Airlines, EVA Airways, LOT Polish Airlines, Lufthansa, Scandinavian Airlines, Singapore Airlines, South African Airways, SWISS International Air Lines, TAP Portugal, THAI, Turkish Airlines, United Airlines.

This agreement was accessible via an online booking system or a code for travel agencies. Few delegations used this opportunity.



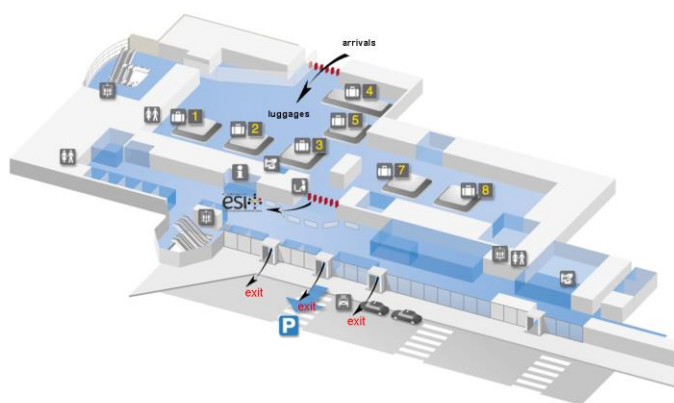
## Welcome points

Welcome points were set in Brussels international airport with a desk provided by VisitBrussels within the International Area, Brussels South Charleroi airport, Brussels–South railway station and Brussels–North railway station

The participants were routed first to the accommodation and then to the venue.

Delegation already in Brussels before the event or arriving with a private vehicle were invited to go directly to the venue for registration and routing.

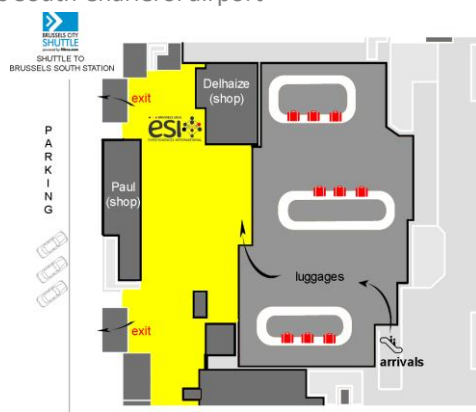
### Brussels International airport



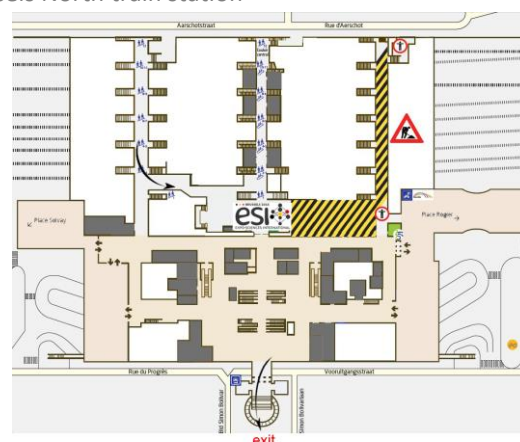
### Brussels South train station



### Brussels South Charleroi airport



### Brussels North train station



## Catering

Meals were provided to the participants from Sunday 19<sup>th</sup> lunch till Saturday 25<sup>th</sup> lunch included

### Breakfasts

Breakfasts were taken at the hotels. Their offer came along with the accommodation.

### Lunches & Dinners

Lunches and dinners were provided by the traiteur Rosière. Three buffets, including one 100% halal, counting with over 20 dishes were proposed at each lunch and dinner except:

- 3 courses meal at Gala dinner
- Food booths at the Brussels night
- Lunch packs during the excursion and on the departure days

Remark: For the departure day, lunch packs were provided at the hotel in the morning for those leaving after 1pm.

# Communication

## Branding

The sponsorship of the Prime Minister which ran till November 2014 bound us to request a validation of the usage of the image.

By default, all public material was validated by our main public partners.

### Visual identity

The visual identity has been created in collaboration with ID Fresh, a contracted communication agency. It combines youth, science and Belgium references.

### Logo

The logo has been created combining the symbol of Belgium, the Atomium, an iron crystal representation, and the Belgian flag colours, and was declined in colour or black & white or not sided with the Brussels region collaborative logo.



Versions have been created in English, French and Dutch.

### Templates

Several templates have been created using the visual identity:

- Word document
- Powerpoint presentation
- Excel spreadsheet (with declinations for the invoices and the expenses sheets)
- Pannels
- Banners
- Badges
- Certificates
- Invitations

### Signatures

All official emails have been branded with an official signatures and using the @esi2015.be domain.

## Credits

The credits were given in English as such: “The Expo-Sciences International is an event of the International Movement for Leisure Activities in Science and Technology MILSET organised by the Jeunesses Scientifiques de Belgique.” (updated after the change of Prime Minister)

## Stand

A promotion stand has been designed and was showcase from the Belgian expo 2014 onwards including at MILSET regional fairs (Amlat, Asia and Europe).



## Goodies

A series of goodies have been created such as badges, folders, postcards, etc. They have been largely spread at ESI 2013 and after to promote the event.

## Online

### Website

The domains esi2015.be, esi2015.org and esi2015.eu were reserved and esi2015.milset.org rooted. <http://www.esi2015.be> being the main domain.

A one-page teaser was published early November 2013 and the website was published early July 2014, before the MILSET regional expo, with a maximum of information.

The design was created by IdFresh

Main figures:

- Sessions: 31.280
- Users: 18.135
- Pageviews: 69.131
- Page/Session: 2,21
- Avg session duration: 2:27

### Social networks

The Facebook Fan Page <https://www.facebook.com/ESI2015> and the Twitter channel have been published with the website and have received information dedicated to the participants, contest for the world record and consultation for the Manneken-Pis cloth proposal. A plan is under finalisation to have follow up publications of information on the event, the organisers, the host place, city, region, country and the participative countries.

Twitter figures:

- URL page: <https://twitter.com/ESI2015>
  - 11 tweets / 55 followers / 93 notifications
- URL hashtag: <https://twitter.com/hashtag/ESI2015>
- Remark: the Twitter account has been lightly used but the hashtag was facing a large activity during the ESI

Facebook figures:

- Period: 01/09/2014-01/08/2015
- URL: <https://www.facebook.com/ESI2015>
- Likes: 4400 (29/08)
- Daily total reach: 228.650
- Daily total impressions: 673.950
- Daily reach of page posts: 157.237
- Daily total consumers: 13.103
- Daily page consumptions: 519498
- Daily total video views: 3881
- Remarks: The dreamed objective was of 5000 likes

The audience on MILSET, JSB and connected fan pages have been positively impacted by ESI.



## Promotion campaign

### National

A launching public event with press coverage and the participation of the Prime Minister Elio Di Rupo was held during the national Expo 2013. A press release was sent following this event.

24/04/2015	A press conference was held during the national expo 2015
-3 month	A press release was sent 3 months before the event
11/07/2015	A press release was sent 10 days before the event
-2 weeks	Radio promo messages were broadcast on Pure FM and La Première (media partners)
20/07/2015	A meeting with the press was held before and after the opening ceremony
21/07/2015	A press release was sent the day after the opening
28/7/2015	A press release was sent 3 days after the closing

### International

A first round of promotion has been conducted in Abu Dhabi during ESI 2013.

A second round has been conducted during the MILSET regional expos 2014 (ESI-Amlat, ESAAsia and ESE).

Starting on September 2014, a series of dedicated mailing through the standard MILSET means of communication were conducted targeting the participants.



## Medias

### Photos

A permanence handled by 2 photographers have allowed to get a full coverage. The photo gallery is available on:

[https://www.facebook.com/ESI2015/photos\\_stream](https://www.facebook.com/ESI2015/photos_stream)

### Videos

An agreement with Louvranges Broadcast was done in view of covering the event. It includes the interview of 40 projects and:

<b>Mon 20</b>	09:00-12:30 Project setup (flash) 09:30-10:30 Information meeting for head of delegations (flash) 10:30-13:00 Young Citizens Conference on Energy (flash) 14:00-15:30 Opening ceremony (full) 15:30-20:00 Expo
<b>Tue 21</b>	09:30-11:00 Conference on: "The unfolding of rational knowledge: from Galileo to contemporary Physics" by Englert (flash + interview) 11:00-18:00 Expo 18:00-22:30 Brussels Night (flash)
<b>Wed 22</b>	09:00-12:30 Expo 09:00-11:00 MILSET General Assembly (flash) 14:00-15:00 Manneken-Pis clothing (flash) 14:00-19:00 Brussels Discovery Tour (flash)
<b>Thu 23</b>	09:00-12:30 Expo 09:00-12:30 Conference on: "How to motivate young people to embrace scientific careers" (full) 14:00-17:30 Visits of the Museum of Natural Sciences / Parlamentarium (flash) 17:30-23:00 Cultural evening (flash)
<b>Fri 24</b>	08:00-18:00 Excursion Mons 2015 (flash) 18:00-19:30 Closing ceremony (flash) 20:00 Farewell party (flash)

The created material was published on Youtube, and promoted via the ESI Facebook Fan Page and the A Pen 4 Europe site and Facebook Fan Page.

A short reportage about the European village was also presented on both French and Dutch national TVs in November and December 2015.

### Quidos

An animated movie introducing ESI was created by François Grimomprez and used to promote the event.

## Press coverage

A press kit was set in French and English.

### Televisions

- 2015.07.20 – RTBF – News 13 :00
- 2015.07.20 – VRT – News 13 :00
- 2015.07.20 - Télé Bruxelles – News evening

### Radios

A large radio coverage was done but not measured including

- Vivacité (Expo + Mons)
- Radio 2
- FM Brussels

### Newspapers

This is non exhaustive list of the press coverage in Belgian Medias.

- 2015.04.24 - Belga - La Belgique accueillera l'Expo - Sciences Internationale du 19 au 25 juillet.pdf
- 2015.04.24 - www.lavenir.net - La Belgique accueillera l'Expo - Sciences Internationale du 19 au 25 juillet.pdf
- 2015.07.01 - Brusseleir - Réunis autour de la science.pdf
- 2015.07.16 - dailyscience.be - Qui a dit que la science n'intéresse pas les jeunes .pdf
- 2015.07.16 - www.brussellife.be - Expo - Sciences International @ Tour & Taxis.pdf
- 2015.07.20 - Belga - Jonge wetenschappers stellen werk voor in Tour & Taxis.pdf
- 2015.07.20 - Belga - Un millier de jeunes scientifiques présentent leurs travaux à Tour & Taxis.pdf
- 2015.07.20 - fr.metrotime.be - Un millier de jeunes scientifiques présentent leurs travaux à Tour & Taxis.pdf
- 2015.07.20 - www.7sur7.be - Un millier de jeunes scientifiques présentent leurs travaux à Tour & Taxis.pdf
- 2015.07.20 - www.brusselnieuws.be - Jonge wetenschappers presenteren werk in Thurn en Taxis.pdf
- 2015.07.20 - www.deredactie.be - De jeunes inventeurs du monde entier exposent à Bruxelles.pdf
- 2015.07.20 - www.skynet.be - Un millier de jeunes scientifiques présentent leurs travaux à Tour & Taxis.pdf
- 2015.07.20 - www.standaard.be - 'We moeten wetenschap aantrekkelijker maken'.pdf
- 2015.07.21 - thebrusseltimes.com - Around a thousand young scientists present their work at Tour & Taxis.pdf
- 2015.07.22 - De Standaard (ed.Vlaams - BrabantBrussel) - Jonge uitvinders.pdf
- 2015.07.22 - Het Nieuwsblad (ed.Brussel - Noordrand) - Jongeren pakken uit met hun uitvindingen.pdf
- 2015.07.22 - La Capitale - De jeunes scientifiques présentent leurs travaux.pdf
- 2015.07.22 - Le Soir (éd.Bruxelles) - Les sciences en fête à Tour & Taxis.pdf
- 2015.07.22 - www.brussel.be - Manneken-Pis in de Expo Science International 2015.pdf
- 2015.07.22 - www.bruxelles.be - Manneken-Pis et l'Expo Science International 2015.pdf
- 2015.07.22 - www.nieuwsblad.be - Jongeren pakken uit met hun uitvindingen.pdf
- 2015.07.22 - www.rtbef.be - L'Expo - Sciences International accueille 1000 jeunes et leur projet.pdf
- 2015.07.22 - www.vivreici.be - L'Expo - Sciences International accueille 1000 jeunes et leur projet.pdf
- 2015.07.24 - www.lalibre.be - Les scientifiques de demain présentent leurs projets d'invention pour le futur.pdf
- 2015.07.24 - www.lavenir.net - Un millier de jeunes scientifiques en visite à Mons.pdf

- 2015.07.24 - [www.rtbef.be](http://www.rtbef.be) - 1000 jeunes scientifiques de 60 nationalités différentes en visite à Mons.pdf
- 2015.07.24 - [www.vivreici.be](http://www.vivreici.be) - 1000 jeunes scientifiques de 60 nationalités différentes en visite à Mons.pdf
- 2015.07.25 - La Dernière Heure (éd.Mons - Centre) - Un millier de scientifiques du futur.pdf
- 2015.07.25 - La Province - 1.000 jeunes scientifiques du monde entier à Mons.pdf

# Finance

## Budget

A part of the budget was covered by the participation fees. For the remaining part an enormous effort was required and a professional resource was contracted to carry it over 3 years to obtain the support. For the details, see partners part.

Unfortunately, a significant unforeseen political change end 2014 did impact significantly some of the cases and resulted by a need for the organisation to involve significantly its own resources to balance the budget.

Outcomes	Amount	Incomes	Amount
Activities	22 629,03€	Registration fees	270 845,58€
Logistic – Catering	113 088,87€	Federal	17 900,00€
Logistic - Accommodation + breakfast	191 470,50€	Federation Wallonia-Brussels	70 000,00€
Logistic – Transports	47 002,88€	Brussels-Capital Region	150 000,00€
Logistic – Facilities	226 244,27€	Wallonia Region	37 000,00€
HR	134 941,70€	City of Brussels	10 000,00€
Participants	12 764,40€	Private	43 000,00€
Comm & Media	23 909,35€	JSB own resources	225 106,34€
Secretariat	3 541,85€		
Others	8 559,07€		
MILSET	39 700€		
<b>Total</b>	<b>823 851,92€</b>		<b>823 851,92€</b>
Quantity of participants (not team/MILSET)	861		
Cost by person (including MILSET fee)	956,85€		

Remark: it is important to underline that the real cost per person was more than 3 times over the registration fee putting a high pressure on the organisers.

## Fees

The fees was fixed following the convention with MILSET.

- 300€ per participant and supervisors in the allowed ratio for an organisation or an institution member of MILSET
- 400€ per participant and supervisors in the allowed ratio for an organisation or an institution non-affiliated to MILSET
- 900€ per participant and supervisors for non-sponsored participants (full cost)
- 650€ per participant and supervisors for non-sponsored participants without accommodation (full cost)
- 50€ per participant cancelling between 1<sup>st</sup> July and 18<sup>th</sup> July

The maximum ratio of supervisors (including the head of delegation) by participants was defined as follow:

- Up to 1 supervisor for each group of 4 participants
- 1 head of delegation for the delegations of at least 3 participants

The countries were sized of maximum 50 participants (with an exception for Mexico) and the MILSET regional offices have been responsible to allocate the seats in countries counting several delegations. The process ran smoothly.

The payment methods were:

- Bank transfers to the account (see finance);
- Online payment by bank card (VISA, Amex, Master Card) has been set on [www.regonline.com](http://www.regonline.com) and a fixed service fee is charged to the participants 4,95%;
- Cash on arrival (not announced and only on very limited justified exceptions)

## Account

The following account has been dedicated to the event:

Jeunesses Scientifiques de Belgique, asbl  
 Avenue Latérale, 17 à 1180 Brussels, Belgium  
 BE56 0016 94 24 9688  
 BIC GEBABEBB

# Partners

## Institutional partners

- Federal state
  - Financial support
  - Entries to the natural sciences museum
- Brussels capital region (Research in Brussels & Visit Brussels):
  - Main partner
  - Financial support
  - Human resources: Aline Franchimont and Sébastien Rush
  - Goodies (flyers, badges, pens, etc.)
  - Welcome facilities at airport, stations
  - VisitBrussels : logistic for accommodation
  - Communication
  - Stands
  - Maps of Brussels
  - 4 Vilo
- Wallonia region:
  - Financial support
- Federation Wallonia-Brussels:
  - financial support
- Brussels city:
  - Financial support
  - Communication support
- Mons
  - In kind

## Private partners

- Ethias (insurance)
  - financial support
- Solvay (chemistry)
  - financial support
- Covalent (chemistry)
  - financial support
- Agoria (technologies)
  - in kind
- Pure FM & La Première (media)
  - in kind
- Mediel
  - in kind



powered by :



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Thank you to all the actors, the team, the volunteers, the participants, the partners, the providers, the visitors, and those whom have contributed at the success of this amazing science adventure!

Antoine van Ruymbeke, ESI 2015 Director

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