

EUCYS 2020 21
SALAMANCA

32nd European Union Contest for Young Scientists 2020-2021

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SALAMANCA

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Winners 1989-2019

Brussels 1989

FIRST PRIZES

Mogens Markussen
DENMARK
Eyewriter, an eye operated control unit

Stephan Schlitter
GERMANY
Conducting polymers in batteries

Grace O'Connor, Sinead Finn
IRELAND
A crop fractionation industry

Lina Tomasella
ITALY
Toxicity of colour dyes used as tracers

Nicola Kirk
UNITED KINGDOM
Walking aid for a disabled person

Jean-Pierre Wyss, Matthias Zimmermann, Elmar Artho
SWITZERLAND
Recognition of handwritten signs

SECOND PRIZES

Serge van der Velde, Olivier Camberlin
BELGIUM
Computer-guided solar furnace

Charles Courtin, Pierre Betsch, Hugues Nodet
FRANCE
A Doppler rocket

Menno Bolt, Eric Toonen, Pascal Stevelmans
NETHERLANDS
Wind energy project

Mark Mathieson
UNITED KINGDOM
Voice intensity feedback for speech handicapped

Halldor Fossa
NORWAY
Expert systems in cancer treatment

Anouk Thommen
SWITZERLAND
Comparative study of two composts

THIRD PRIZES

Samuel Delaere
BELGIUM
Electromagnetic radiation

Dimitri Hautot
BELGIUM
Studies on the Kelvin generator

Stephan Røntved, Søren Chyltoft
DENMARK
LISSI, an I. C. Test Computer

Matthias Büger
GERMANY
Axiomatic theory of mean values

Walter Georg Veeck, Jens Schneider
GERMANY
Construction of a diffusion cloud chamber

Dimitri Theocharidis, Paul Magoulas
GREECE
New Dimension 2000, an automation system with computer

Fermín Tabar, Luis Rodríguez, Antonio Sánchez
SPAIN
Multi-use interface applied in a greenhouse

Juan Navas, José Ortega, José Navas
SPAIN
Computer-based sound synthesis system

Benoît Landeos, Bertrand Dubois, Alain Crusoe
FRANCE
Wheelchair adapted for racing

Patrick Mora, Jean-François López
FRANCE
Meteorological imaging

Enrico Corsini
ITALY
Solar spots

Valerio Emma
ITALY
The rhopalocerous insect

Marc Pauly, Gérard Milmeister
LUXEMBOURG
The fantastic world of fractals

Yves Thill, Serge Remesch
LUXEMBOURG
Mapograph, a computer-aided writer

Manuel van den Bergh, Lauren Smit, Mathieu van Geffen
NETHERLANDS
CHIP, a computer hardware instruction project

Paulo Ribeiro
PORTUGAL
Diving patterns of the bottlenose dolphin

Reinhard Herzog
AUSTRIA
An electronic plotter

Stein Ringnes, Ingvar Apeland, Jarand Felland
NORWAY
Solar energy project

Copenhagen 1990

FIRST PRIZES

Paul Vauterin, Bruno Callens
BELGIUM
Automated meteor observation station

Waltraud Schulze
GERMANY
The effect of assimilatory starch for the growth of Arabidopsis

Annagh Dalton (née Minchin)
IRELAND
Colpomenia Peregrina, an inmigrant alga to Europe

Donatella Manganelli
ITALY
Silence, micro-organisms at work

Brian Dolan, Lee Kiera, Ann Marie Malon
UNITED KINGDOM
A study of the transition to turbulence in Reynold's experiment

Marco Ziegler
SWITZERLAND
Drinking water examination with special consideration of corrosional aspects

SECOND PRIZES

Morten Larsen
DENMARK
Hand reader

Jan Lichtenberg
GERMANY
Unilyser, a universal computer system for chemical analysis

Stefan Scheller
GERMANY
Computer-aided holography for optical and acoustical reconstruction

Beatriz Pías, Mercedes Pías, Ana Riveiro
SPAIN
The Atlantic brushwood as a natural resource

Gianni Insacco
ITALY
Fossil remains in vertebrates in continental Pleistocene deposits in the region of Comiso, South-East Italy

Ian Thompson, Graham Miller
UNITED KINGDOM
Investigation of oils used in soap manufacture

Geraldine Brossard
SWITZERLAND
Toxocara Canis or the "grande vadrouille" of a parasite

Zurich 1991

FIRST PRIZES

Robert Nitzschmann
GERMANY
Development and construction of a scanning tunnelling microscope

Barry O'Doherty, Daniel Dundas
IRELAND
The dynamics of a two-well potential oscillator

Paul Hoffmann
LUXEMBOURG
Computer assisted text conversion to Braille

Angus Filshie
UNITED KINGDOM
Clearway: a mucus extractor

Christian Tost, Sabine Zangl
AUSTRIA
Catalytic converter restoration

Torkild Jensen
NORWAY
Birdlife in Oslofjord

Hans Jacob Feder
NORWAY
Earthquakes as a self-organised critical process

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SECOND PRIZES

Tanja Hindrichs, Hussein Morsy, Axel Conrad
GERMANY
The knight's Hamiltonian path problem

Nicolas Bouche, Olivier van der Aa
BELGIUM
Flight study of a micro-rocket

Valerio Arnáiz, José Mora, Alexandre Girone
SPAIN
Astrometry: the measurement of comet positions

Henk Hoekstra, Christian Kok
NETHERLANDS
Oscillating systems of chemical reactions

Edwin Thaller, Friedrich Pfluegelmeier
AUSTRIA
Intelligent testing probe

Christof Teuscher, Flavio Stragiotti
SWITZERLAND
Aiolos II: development of a wind measuring computer system

Seville 1992

FIRST PRIZES

Hendrik Küpper, Frithjof Küpper, Martin Spiller
GERMANY
Environmental relevance of heavy metal ubstituted chlorophylls

Oliver Trapp
GERMANY
Study on the effect of a chelator on yeast

Anders Skov
DENMARK
The bent perspective

Martin Hesselsøe
DENMARK
Green toad (Bufo Viridis) in the great belt

Jean Byrne, Elizabeth Dowling
IRELAND
Population dynamics of a thistle predator: Terellia Serratulae

Dominik Zeiter, Ewald Amherd, Reinhard Fubber
SWITZERLAND
Graphtal plants varieties of trees

SECOND PRIZES

Ingolf Zies
GERMANY
New global lighting model based on radiosity

Raoul Urlings
BELGIUM
10 channel vocoder

Clement Stefanutti, Aurélie Vidal, Julie Morere
FRANCE
Palynology - Historic botany

Panagiotis Theofanidis, Nick K. Tsagourias
GREECE
Research and development of a traffic light system

Luis Bellot Rubio, Antonio Román Reche, Gustavo Román Reche
SPAIN
Analysis of visual observations of the comet Levy

Jochen Erhard, Cristoph Herbst
AUSTRIA
Electronical regeneration of FeC12/FeC13 compounds in metal etching processes with an environmental and economic focus

Berlin 1993

FIRST PRIZES

Henrik Mouritsen
DENMARK
Abiological expedition to the rainforests of the Philippines

Lars Knudsen, Peter Andersen
DENMARK
Droppy, the computer controlled intravenous drip feed

Albert Barmettler, Günther Ederer
AUSTRIA
An alarm processing system

Jan Haugland
NORWAY
The minimum overlap problem of Paul Erdös

Rodger Toner, Donal Keane
IRELAND
Mate selection by a male crustacean

María Salvany González, Antoni Camprubí I Cano, Fidel Costa Rodrígez
SPAIN
The geological mapping of a Neollithic mine

SECOND PRIZES

Jan-Cristoph Puchta
GERMANY
Fermat's last theorem

Pierre Oger
BELGIUM
Oil (hydrocarbon) recovery from water

Eleonora Bonanomi, Stefano Consonni, Mircko Signorelli
ITALY
Use of biogas in a photosynthetic culture

Daniel Morton, Tim Mullis
UNITED KINGDOM
A palletiser improvement

Peter Seidel
GERMANY
Ball lightning, an investigation

Jürgen Scherschmidt, Jochen Scherschmidt
GERMANY
A user-friendly video recorder

Luxembourg 1994

FIRST PRIZES

Oliver Krüger
GERMANY
The ecology of the common buzzard and goshawk

Eike Lau
GERMANY
Internal addresses in the Mandelbrot set

Jane Feehan
IRELAND
The Calluna Case-Carrier

Christian Krause
DENMARK
Telephone break-in security

Henrik Ström
NORWAY
An anti-boot virus program

Samuel Schaer
SWITZERLAND
Supersonic plasma rings

SECOND PRIZES

Ivan Labanca
ITALY
A diffusion cloud chamber with magnetic field

Gijs van Oort
NETHERLANDS
A computer controlled flute

Jan Ivar Oeyulvstad
NORWAY
Flood prevention in the river Otra in Southern Norway

Nuno Alves da Silva, Hugo Macedo
PORTUGAL
Image processing using a neural network

Stefan Serefoglou
GREECE
The two-to-one way rotation converter

Fernando Toro Chicano, Ricardo Peñafiel Gil, Santiago Hervás Morales
SPAIN
A new age plotter

THIRD PRIZES

Amina Azami, Chemseddine Bega
BELGIUM
Bio-indicators

Kai Eberspächer, Dominik Zayer, Andreas Gorbach
GERMANY
Computer-controlled waste-water purification

Padelis Ermilios
GREECE
Using computers in physics experiments

Vagelis Papadopoulos
GREECE
Extension of the integral calculus

Guillermo Guerrero Guerrero, Javier Villegas, Javier Rodríguez
SPAIN
Beewax recovery using solar energy

Eduardo Moling González, Ruth Morena, José Manuel Brell
SPAIN
Water rocket

Séverine Meynieux, Catherine Khamphan, Marie Montanard
FRANCE
Peat bogs fossils: unmasking the past

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Nicolas Rebierre, Olivier Rebierre, Olivier Pesle
FRANCE
Real speed

Stéphan Fidanza, Olivier Pesc
FRANCE
Space-time theory

Sara Azimonti, Elena Porazzi, Giovanni Colombo Bolle
ITALY
Asbestos: properties, manufacturing, applications, legislation

Patrick Neuberg
LUXEMBOURG
Improved cell sectioning

Necibe Gezer
NETHERLANDS
Teenage restlessness in a Dutch town

Jorgen Carling
NORWAY
Examining voting patterns

Martin Franz Waldmann, Johannes Lackner, Josef Schmidbauer
AUSTRIA
Solar energy to ecological fuel

Jürgen Hintermayer, Attila Agoston
AUSTRIA
Brain waves and artificial intelligence

Michael Schachinger, Thomas Wetzlmaier, Jürgen Zauner
AUSTRIA
Telephoning via computer networks

Paulo Alexandre Machado
PORTUGAL
A real time digital spectrograph

Ana Simoes das Neves
PORTUGAL
The pharmacology of medicinal plants

Kaarlo Vaïsanen
FINLAND
Production of fullerenes by Draetschmer-Huffman's method

Magnus Viström, Pontus Forslund, Robert Hagglund
SWEDEN
A car hand brake: a potential life saver?

Annika Nyström
SWEDEN
From Salix Alba to modern medicine

Johanna Larnhed
SWEDEN
Antifouling

Caroline Turner
UNITED KINGDOM
A time interval analyser

Samantha Haines
UNITED KINGDOM
An electornic physiotherapy aid

Rebecca Anderton, Aaron Weller, Morgan Jones
UNITED KINGDOM
Delayed failure in ultra-high strength steels

Michael P. Germeyer-Petyke, Alexander Pohl
EU SCHOOLS
Vitamin C synthesis in germinating cress seedlings

Tamas Nagy, Sandor Mezei
HUNGARY
A Braille printer and school notebook for the blind

Daniel Kiss, Agnes Majoros, Lajos Kovacs
HUNGARY
Universal clamping head for industrial robots

Robert Varga
HUNGARY
Computerised navigation

Roman Evtushenko, Evgueni Milioutine, Evgueni Chelkovo
UKRAINE
Biohumus production by the red Californian worm

Serguei Semeniouk, Alla Atepalikhina, Karim Naser
UKRAINE
The role of the thiamine in neuthrophil phagocytic activity in smokers and nonsmokers

Kenna Mills, Diego Figueroa
USA
Water detoxification using duckweed

Newcastle Upon-Tyne 1995

FIRST PRIZES

Sven Siegle
GERMANY
Natural pulping or paper from straw

Brian Fitzpatrick, Shane Markey
IRELAND
Plants can tell us when they need a drink of water

Christopher Mead, Matthew Taylor
UNITED KINGDOM
Radio waves from comet Shoemaker-Levy 9

SECOND PRIZES

Tycho van Meeuwen
NETHERLANDS
The witty wise writing writer

Nina Fraefel
SWITZERLAND
Biochemical control of salmonella in poultry feed

Oliver Hantschel, Kai Krüger, Nicole Stroh
GERMANY
Is isoguanine selectively mutagenic during virus replication?

THIRD PRIZES

Aldis Helga Egildsdottir, Reynir Hjalmarsson
ICELAND
The Icelandic capelin: a behaviour study

Frank Ekpar, Erik Sos
HUNGARY
Mobile robots: motorless motion using shape memory alloy actuators

Klaus Mazanti Soerensen
DENMARK
Factorising factorials and Bertrand's postulate for primes 4k+3

Marcin Kowalczyk, Marcin Sawicki
POLAND
The force of a set and the Euler characteristic

Gergely Eberhardt
HUNGARY
A virus recognition programme to prevent computer infection

Michael Vorburger
SWITZERLAND
A fruity approach to memory management in C++

Roddy Vann
UNITED KINGDOM
The manufacture of closed-cage molecules in electric arcs

Alberto Lerena, Ricardo Martín, Víctor Sanz
SPAIN
A brake based on magnetically solidified fluid

Helsinki 1996

FIRST PRIZES

Tobias Kippenberg
GERMANY
A car ice-detection system based on electromagnetic waves

Yann Ollivier
FRANCE
Flexibility of an articulate lattice

Wouter Couzijn
NETHERLANDS
"Locator", a self-positioning robot

SECOND PRIZES

Emil Laslo
HUNGARY
Braille display

Maciej Kurowski, Tomasz Osman
POLAND
Common solution sets of real polynomials

David Kelnar
UNITED KINGDOM
AMES, the accessible multimedia education system

THIRD PRIZES

Andreas Derr
GERMANY
MediNet: an intelligent system for medical diagnosis

George Almpanis, Despina Scholidou
GREECE
Boundaries and stellar content of the LH52 and LH53 associations

Patricia Lyne, Rowena Mooney, Elsie O'Sullivan
IRELAND
Analysis of indigenous Irish strains of honeybee

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Radoslaw Skibinski
POLAND
The Oligocene fish: discovery and reconstitution

Thomas Bürg
SWITZERLAND
An intelligent six-legged walking machine

Justin Marston
UNITED KINGDOM
The dripping tap as a model chaotic system

Milan 1997

FIRST PRIZES

Eike Hübner
GERMANY
Permanent self-conducting polymers

Fiona Fraser, Ciara McGoldrick, Emma McQuillan
IRELAND
Unravelling the secrets of the preservation of Europe's bog bodies

Christoph Lippuner, Antoine Wüthrich
SWITZERLAND
The digestive system of carnivorous plants

SECOND PRIZES

Sebastian Hauer, Jan Nieberle
GERMANY
A circular saw active security-system

Bernardo Silva e Carmo
PORTUGAL
A control centre for school experiments

Serguei Idiatoulin
RUSSIA
The preparation of chromiferous coatings to absorb solar energy

THIRD PRIZES

Álvaro Luis Maroto Conde
SPAIN
Paravision 1.0: window access for visually impaired

Thierry Caramigeas, Vivien Moliton, Michael Pressigout
FRANCE
A microwaves controlled household management system

Gábor Ivánka
HUNGARY
MATIKA: the game to solve your mathematical problems

Erik van Alphen, Tom van Diessen
NETHERLANDS
Less waste with bricks

Anni Könönen
FINLAND
Human impact on forest vegetation

Daniel Atwood, Andrew Teesdale
UNITED KINGDOM
How ecalyptus resins can prevent seeds from germination

Porto 1998

FIRST PRIZES

Gabor Bernath
HUNGARY
ScanGuru: the 3D scanner

Paul Pak, Peter Weilenmann
AUSTRIA
The virtual blind man's cane

Robert Carney, Matthew Tomas
UNITED KINGDOM
Yellowing of alkyd-based paints in the dark

SECOND PRIZES

Karsten Weiss
GERMANY
Digi Cow: a completely new type of milking machine

Arthur Baas, Adrian de Groot, Chris Weel
NETHERLANDS
POSEIDON: the wave-motion power generator

Dasa Suput
SLOVENIA
Sea anemones

THIRD PRIZES

Enrik Eriksen
DENMARK
KOMBI-2: a novel approach soil preparation and sowing

Juliane Richter
GERMANY
The phenomenon of fluctuation in concentration

Montserrat Coll Lladó, Mariona Picart Merino
SPAIN
Commercially viable sardine anchovy fish production

Raphael Hurley
IRELAND
The mathematics of monopoly

Grzegorz Kapustka, Michael Kapustka
POLAND
Some propertioes of polygons

Maxim Sergeev
RUSSIA
A new method to process some production waste

Thessaloniki 1999

FIRST PRIZES

Sarah Flannery
IRELAND
Cryptography: a new algorithm vs. the RSA

Sverrir Gudmundsson, Pall Melsted, Tryggvi Thorgeirsson
ICELAND
The galaxy cluster MS1621 +2640

Michal Ksiazkiewicz
POLAND
Estimation of urban pollution using Epiphytic Lichens

SECOND PRIZES

Sebastian Gschwende, Michael Rödel
GERMANY
FinoPro simulates mechanical events, using finite elements

Lorraine Ruzié
FRANCE
Submarine volcano emergence forecasting device

Jure Leskovec
SLOVENIA
Detection of human bodies from a sequence of images

THIRD PRIZES

Patrick Imper, Raphael Zulliger
SWITZERLAND
Speedometer for roller blades

Arlet Bellvehi Sampera, Joan Munich Arranz
SPAIN
Reestablishment of amphibian population despite exotic fish threat

Maciej Walczak
POLAND
Chemical synthesis of amionalkyl nucleoside phosphates

Amsterdam 2000

FIRST PRIZES

Grzegorz Niedzwiedzki
POLAND
New Finds of dinosaur tracks in the Holy Cross Mountains

Joanne Daniel, Gemma Dawson, Ally Wilkie
UNITED KINGDOM
Designing a disposable sample device

Nickoloz Tchankoshvil
GEORGIA
The monitoring and protection of bats in Georgia

SECOND PRIZES

Vaclav Rehak
CZECH REPUBLIC
Prisoners dilemma: modelling of social phenomena using cellular automata

Janez Langus
SLOVENIA
Theoretical and practical aerodynamics

Jasmin Roya Djannatian
GERMANY
Cytotoxicity of different mistletoe preparations on leukaemic cells

THIRD PRIZES

Florent Durrey
FRANCE
Globular clusters around the Milky Way

Gàbor Guta
HUNGARY
Simulator with ultra low noise

Yevgen Nazarenko
UKRAINIA
The processing of aluminous manufacture after-product

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Travel award to the Noble Prize Ceremony

Jasmin Roya Djannatian
GERMANY
Cytotoxicity of different mistletoe preparations on leukemia cells

Anastasiya Efimenko
UNITED KINGDOM
My challenge to children's mortality

Bergen 2001

FIRST PRIZES

Thomas Aumeyr, Thomas Morocutti
AUSTRIA
CURE - Controlled Ultraviolet Radiation Equipment

Sebastian Abel
GERMANY
Cloud

James Lee Mitchell
UNITED KINGDOM
Characteristics of Azole drug resistance in candida tropicalis

SECOND PRIZES

Bálint Pato
HUNGARY
Stress proteins as constituents of the Microtrabecular Lattice

Zbigniew Lech Pianowski
POLAND
New liquid crystal for holography

Marcin Wojnarski
POLAND
Neural network for solving classification problems

THIRD PRIZES

Jimi Lee Truelsen
DENMARK
A new cryptographic algorithm

Shane Browne, Michael O'Toole, Peter Taylor
IRELAND
Symmetrical shapes formed by poligons

Richard Hulme, Yan Pugh-Jones
UNITED KINGDOM
Analysing the flight of Brazilian humming birds

Vienna 2002

FIRST PRIZES

Pawel Piotrowski
GERMANY
Special wings and ground effect for efficient transportation

Martin Etzrodt, Martin von der Helm
GERMANY
The slime mold physarum as a model organism for biotesting

Lauri Kauppila
FINLAND
Comparing the Oxidiser/Fuel ratio and heat released from Rocket Fuel Combustion

SECOND PRIZES

Vincent Bougreau, Solene Broner
FRANCE
Are there germs in the highest layers of the atmosphere?

Arnhild Jacobsen
NORWAY
The Physics of a rolling soda can

David Sahrla
SLOVENIA
Chemiluminescence

THIRD PRIZES

Maarten Vanhove
BELGIUM
Morphological diversity of cladoceran resting eggs in shallow lakes

Piotr Garbacz
POLAND
Influence of direction and intensity of gravity on plant growth

Ozgur Paksoy, Aslihan Akin Nuriye
TURKEY
A general approach to the proof of inequalities

Budapest 2003

FIRST PRIZES

Jana Ivanidze
GERMANY
pH sensitive GFP mutant

Uwe Treske
GERMANY
Low-cost scanning tunneling microscope

Gábor Németh
HUNGARY
Efficiency enhancement of plasma loudspeakers

SECOND PRIZES

David Sehna
CZECH REPUBLIC
Math studio - a computer algebra system

László Nagy
HUNGARY
Phytocenology and environment protection of the central Hungarian plain

Lukasz Jaremko, Mariusz Jaremko
POLAND
Design and synthesis of two new immuno-suppressants

THIRD PRIZES

Wim Cools
NETHERLANDS
A new compact operating system

Ksenia Rogova
RUSSIA
The key to the mystery of the stone book

Johannes Keller
SWITZERLAND
The influence of the quill shape on the harpsichord sound

Dublin 2004

FIRST PRIZES

Martin Knobel, Gerhard Schony, Florian Grossbacher
ENGINEERING | AUSTRIA
Breakthrough in the manufacturing of condenser microphones

Charlotte Stranvist
CHEMISTRY | DENMARK
Improving the method of synthesizing antidepressants

Mario Chemnitz
PHYSICS | GERMANY
Ultrasonic detector for gas chromatography

SECOND PRIZES

Marcel Kolodziejcyk
MATHEMATICS | POLAND
A counterfeit coin problem

Roland Bauerschmidt
COMPUTER | GERMANY
Internet access for guests

Mehmet Halit Calayir, Mehmet Cakan
PHYSICS | TURKEY
Construction of a seismograph

THIRD PRIZES

Ocan Sankur
COMPUTER | TURKEY
N-gram based language classification

Artur Lewandowski
BIOLOGY | POLAND
Ants learning process

Laurynas Pliuskys
ENVIRONMENT | LITHUANIA
Hydrochemical analysis of the lakes of Trakai

Moscow 2005

FIRST PRIZES

Igor Gotlibovitch, Renate Landig
PHYSICS | GERMANY
Corners in water - unexpected symmetry breaking in fluid dynamics

Javier Lopez Martinez Fortun, Eliecer Perez Robaina, Carlos Machado Carvajal
BIOLOGY | SPAIN
Sonchus leptacaulis: a new species consolidation in Gran Canaria

Silvana Konermann
MEDICINE | SWITZERLAND
Development of a system for the local prevention of catheter associated urinary tract infection

SECOND PRIZES

Zdenek Janovosky
ENVIRONMENT | CZECH REPUBLIC
Vegetation dynamics of the small forest and open landscape ponds and its historical causes

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Stephen Schulz
CHEMISTRY | GERMANY
Lab on the chip - new perspectives with electrons as universal reagent

Patrick Collison
COMPUTER | IRELAND
Croma: a new dialect of lisp

THIRD PRIZES

Gitte Ahlquist Jonsson
MEDICINE | DENMARK
Aid for putting on and taking off stockings for handicapped persons

Margus Niitsoo
MATHEMATICS | ESTONIA
Generalizations of the Fibonacci sequence

Eric Deele, Pierre Haas
BIOLOGY | LUXEMBOURG
Cartography of galls

Stockholm 2006

FIRST PRIZES

Michael Kaiser, Johannes Kienl
ENGINEERING | AUSTRIA
Development of a completely new electro-thermo-mechanical De-Icing system for aircraft

Johannes Burkart, Alexander Joos
PHYSICS | GERMANY
Flight curves of table tennis balls

Tomasz Wdowik
CHEMISTRY | POLAND
Synthesis of a potential (beta)-blocker

SECOND PRIZES

Thomas Gigl
EARTH SCIENCE | GERMANY
Radial velocity measurement of spectroscopic binaries

Michael Marcinkowski
MATHEMATICS | POLAND
On a geometric transformation relating the Euler and Nagel lines

Zoltan Tarjanyi, Csaba Vass
BIOLOGY | HUNGARY
New diagnostic method to define the errors of the apoptosis program

THIRD PRIZES

Georgi Dyankov
PHYSICS | BULGARIA
A method of measurement of refractive indices, birefringence and thickness of a thin anisotropic layer

Aisling Judge
BIOLOGY | IRELAND
The development and evaluation of a biological food spoilage indicator

Valencia 2007

FIRST PRIZES

Florian Ostermaier, Henrike Wilms
PHYSICS | GERMANY
Flashing Water Drops

Márton Spohn
CHEMISTRY | HUNGARY
Examination of Plants' Self-Defence Against Pests

Abdusalam Abubakar
MATHEMATICS | IRELAND
An Extension of Wiener's Attack on RSA Encryption

SECOND PRIZES

Martina Hafner
ENVIRONMENT | AUSTRIA
Energy from maize straw

Anne-Laure Delaye, Aude Latrive, Astrid Verpeaux
PHYSICS | FRANCE
Can we walk on water?

Yael Amarilyo
BIOLOGY | ISRAEL
Molecular Identification and Characterization of Phytoplasma Bacteria in Grapevines – Another Milestone Saving the Wine Industry

THIRD PRIZES

Julian Glechner, Werner Pollhammer, David Stockinger
ENGINEERING | AUSTRIA
Latent heat storage system (Salt crystal as a new energy storage technology)

Eva Černohorská
MATHEMATICS | CZECH REPUBLIC
Generalization of method of tiling in triangular and hexagonal grid

Florian Schnös
ENGINEERING | GERMANY
SmartCam – Development of a universal 3D-Camera

Copenhagen 2008

FIRST PRIZES

Magdalena Bojarska
MATHEMATICS | POLAND
Hamiltonian cycles in generalized

Halin grap, Martin Tkáč
ENGINEERING | SLOVAK REPUBLIC
Tilting of bulk materials based on gravitation principle in cargo railway transport

Elisabeth Muller
EARTH SCIENCE | UNITED KINGDOM
From Microcosm to Magma Oceans: A Lunar Meteorite Perspective

SECOND PRIZES

Michael Mikát
BIOLOGY | CZECH REPUBLIC
Ecology and Ethology of family Lestidae (Insecta: Odonata)

David Wittkowski
PHYSICS | GERMANY
Polygonal structures on rotating fluid surfaces

Émer Jones
ENGINEERING | IRELAND
Research and Development of Emergency Sandbag Shelters

THIRD PRIZES

Aliaksandr Minets
MATHEMATICS | BELARUS
Orbital origamis and stabilizers of stair origamis

Etienne Lalique, Axel Talon
PHYSICS | FRANCE
Phaethon, the solar balloon

Eriks Zaharans, Janis Zaharans
PHYSICS | LATVIA
Monitoring of cardiovascular system

Paris 2009

FIRST PRIZES

Liam McCarthy, John D. O'Callaghan
BIOLOGY | IRELAND
The Development of a Convenient Test Method for Somatic Cell Count and it's Importanc in Milk Production

Fabian Gafner
PHYSICS | SWITZERLAND
Dikranos – the airplane with reverse gear

Aleksander Kubica, Wiktor Pilewski
PHYSICS | POLAND
Spiral Zone Plates

SECOND PRIZES

Elodie Aubanel, Jérémy Dargent, Arnaud De Richecour
PHYSICS | FRANCE
Pick Up a Cosmic Wink

Philip Cardona
ENGINEERING | MALTA
Cappucino Logo Printer

Sara Vima Grau
EARTH SCIENCE | SPAIN
From mineral to Romanesque altarpiece: Identification of mineral pigments and reproduction of a Catalan Romanesque altarpiece

THIRD PRIZES

Áron Hunyadi
ENGINEERING | HUNGARY
Walking through (a piece of) time with a timepiece

Stefan Strobel
COMPUTING | GERMANY
Development of a near-infrared vein imaging system

Omri Lesser
PHYSICS | ISRAEL
The Complex Potential and Its Application to the Planning of Dams

Lisbon 2010

FIRST PRIZES

Miroslav Rapcak
PHYSICS | CZECH REPUBLIC
Complete Phase Diagram Of CO2 Nanoclusters

Sterling EX2017
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David Pegrimek, Lukasz Sokolowski
BIOLOGY | POLAND
Foraging Strategy Of The Ant Formica Cinerea

Dávid Horváth, Márton Balassi
SOCIAL SCIENCES | HUNGARY
Nature On Your Screen - Computer Based Modeling And Local Area Network In The Education Of Ecology

SECOND PRIZES

Justyna Slowiak
BIOLOGY | POLAND
Biodiversity, Palaeoecology And Taxonomical Position Of Vertebrates In The Middle Triassic Sea Ecosystem In Silesia (sw Poland)

Simon Schuldt
ENGINEERING | GERMANY
Aircraft Of The Future - A Practise based School Project

Luca Banszerus, Michael Schmitz
PHYSICS | GERMANY
Production And Charaterization Of Graphene Devices

THIRD PRIZES

Aleksejs Sazonovs
COMPUTING | LATVIA
Applying Image Recognition Methods For Classification Of Astronomical Images

Davide Giacinto Lucarelli, Niccolò Pozzi, Stefano Sanfilippo
MATHEMATICS | ITALY
An Analysis of the Network

Inês Alexandra, Costa Kristoffer de Sá Høg
ENVIRONMENT | PORTUGAL
Rocks Of The Southwest - The Mysteries Written On The Stone

Helsinki 2011

FIRST PRIZES

Alexander Amini
COMPUTING | IRELAND
Tennis Sensor Data Analysis: An Automated System for Macro Motion Refinement

Pius Markus Theiler
ENGINEERING | SWITZERLAND
pi Cam - The Development of a Camming Device for Climbing

Povilas Kavaliauskas
MEDICINE | LITHUANIA
The Role of Houseflies (Musca domestica) in Spreading Antibiotic Resistant Bacteria

SECOND PRIZES

Benjamin Walter
PHYSICS | GERMANY
Scanning Tunnelling Microscopy of Coronene Molecules on Germanium (111)

Natalie Mitchell
PHYSICS | UNITED KINGDOM
Auto Focusing Methods for Digital Microscopy

Georgi Atanasov, Georgi Georgiev, Kalina Petrova
COMPUTING | BULGARIA
DriveFreeZ - Driving Simulator

THIRD PRIZES

Alex Bergsåker
SOCIAL SCIENCES | NORWAY
Guanxi – the Significance of Relations and Social Networks in Chinese Business

Michal Miskiewicz
MATHEMATICS | POLAND
The Charm of the 'mi' Set

Holly Rees
BIOLOGY | UNITED KINGDOM
Investigation into Embryonic Stem Cell Differentiation

Bratislava 2012

FIRST PRIZES

Mark James Kelly, Eric Doyle
PHYSICS | IRELAND
Simulation accuracy in the gravitational many-body problem

Jakub Nagrodzki
CHEMISTRY | POLAND
Development of molecular patches therapy: trimethylguanosine cap analogues synthesis

Philip Huprich, Manuel Scheipner, Daniel Zind
ENGINEERING | AUSTRIA
Cam Guard

SECOND PRIZES

Nevzet Khasanov
PHYSICS | SWITZERLAND
Diffusion cloud chamber: the visible radioactivity

Jan Michael Rapp, Timo Schmetzer
COMPUTING | GERMANY
Information technology for a feedback control

Asbjørn Christian Nordentoft
MATHEMATICS | DENMARK
Applications of Dirichlet series

THIRD PRIZES

Anna Maria Punab
SOCIAL SCIENCES | ESTONIA
The relationships between academic achievements and happiness among students in secondary education

Anna Julia Kuśnierczak
BIOLOGY | POLAND
Alternative pollination: influence of different ecosystems on the reproduction of red mason bee (Osmia rufa L.) on the example of a meadow, an orchard, a forest and an arboretum

Pavel Litvinka
COMPUTING | BELARUS
Development of hardware and software complex for the formation of threedimensional image

Prague 2013

FIRST PRIZES

Perttu Pölönen
SOCIAL SCIENCES | FINLAND
Music A'Clock

Ciara Judge, Emer Hickey, Sophie Healy-Thow
BIOLOGY | IRELAND
A statistical investigation of the effects of diazotroph bacteria on plant germination

Frederick Turner
ENGINEERING | UNITED KINGDOM
Genetics at home: Building a PCR machine and other equipment for setting up a home genetics lab

SECOND PRIZES

Thomas Steinlechner, Dominik Kovacs, Yuki Trippel
ENGINEERING | AUSTRIA
Anastomose Robot Tool - ART

Lennart Kleinwort
COMPUTING | GERMANY
FreeGeo – the world's first dynamic Android mathematics system app

Jasmin Allenspach
MATHEMATICS | SWITZERLAND
LSLLSLSLLSLLSLS – Modern Mathematics in Islamic Mosaics

THIRD PRIZES

Balázs Zsombori
COMPUTING | HUNGARY
PiktoVerb – Giving Everyone a Voice

Daniel Pflueger
PHYSICS | GERMANY
Measuring water waves

Maksim Bezrukov, Aliaksandr Stadolni
MATHEMATICS | BELARUS
Percolation games on Cayley graphs of groups

Warsaw 2014

FIRST PRIZES

Luboš Vozdecký
PHYSICS | CZECH REPUBLIC
Rolling Friction

Mariana de Pinho Garcia, Matilde Gonçalves Moreira da Silva
BIOLOGY | PORTUGAL
Smart Snails

João Pedro Estácio Gaspar, Gonçalves de Araújo
MATHEMATIC | PORTUGAL
A natural characterization of semilattices of rectangular bands and groups of exponent two

SECOND PRIZES

Paul Clarke
MATHEMATICS | IRELAND
Contributions to cyclic graph theory

Aleš Zupančič
CHEMISTRY | SLOVENIA
Self-cleaning fabrics based on nanocovers

Petar Milkov Gaydarov
MATHEMATICS | BULGARIA
Hamming Distance of Polynomials over GF(2)

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THIRD PRIZES

Philipp Mandler, Anselm Bernhard PeterDewald, Robin Braun
ENGINEERING | GERMANY
Hexapod - Construction and Programming of a six-legged exploration robot

Matas Navickas
BIOLOGY | LITHUANIA
Flowering Apple Tree "Malus baccata x Malus prunifolia" in vitro

Ameeta Kumar, Aneeta Kumar
MEDICINE | UNITED KINGDOM
pHLIP? Beacon of hope

Milan 2015

FIRST PRIZES

Sanath Kumar Devalapurkar
MATHEMATICS | UNITED STATES
On the Stability and Algebraicity of Algebraic K-theory

Michał Bączyk, Paweł Piotr Czyż
PHYSICS | POLAND
The studies of behaviour of single and coupled on-off type oscillators on the example of bottle oscillators

Lukas Stockner
COMPUTING | GERMANY
Statistical modeling of volumescattered light

SECOND PRIZES

Michael Bayrhammer, Florian Thaller
MEDICINE | AUSTRIA
Tendon Tissue Engineering - Development of a Novel Tissue Bioreactor for Culturing Tendons

Polina Vladislavovna Ledkova
ENVIRONMENT | RUSSIA
Successions of vegetation and recultivation of the anthropogenically changed landscapes in neighborhoods of the Krasnoye settlement and in the Nenets state nature reserve, 2013- 2014

Dominika Katarzyna Bakalarz, Joanna Michalina Jurek
MEDICINE | POLAND
Origami BioBandage - mathematically described multipotential bioimplant based on polymeric nanomaterial modified by hydroxyapatite and stem cells

THIRD PRIZES

Timothy Matthew Logan
ENVIRONMENT | NEW ZEALAND
To Graze or Not to Graze?

Anselm von Wangenheim
PHYSICS | GERMANY
Monopod - Physics at the tipping point

Katariina Kisand
CHEMISTRY | ESTONIA
Synthesis and biochemical characterization of covalent fluorescent probes targeting mitotic protein kinase Aurora A

Brussels 2016

FIRST PRIZES

Ane Kristine Espeseth, Torstein Vik
MATHEMATICS | NORWAY
Motivic Symbols and Classical Multiplicative Functions

Valerio Pagliarino
COMPUTING | ITALY
LaserWAN: laser broadband internet connection

River Connell Grace
BIOLOGY | USA
Shining a Light on the Blind: Evolutionary Regression and Adaptive Progression in the Micro-vertebrate Ramphotyphlops braminus, a Model for Understanding Brain Organization and Complex Neurological Disorders

SECOND PRIZES

Tassilo Constantin Schwarz
COMPUTING | GERMANY
Drone detection system: Detection, tracking and classification of potentially dangerous flight objects for multicopter defence

Kayley Noelle Ting
MEDICINE | CANADA
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Ivo Zell
PHYSICS | GERMANY
A wing is enough: An improved flying wing based on a bell-shaped lift distribution

THIRD PRIZES

Tomáš Heger
MEDICINE | CZECH REPUBLIC
Biological activity of essential oils and extracts from narrow-leaved lavender (Lavandula angustifolia Mill.) flower

Mari Louise Fufezan, Diana Bura
ENVIRONMENT | IRELAND
An Investigation into the Effects of Enzymes used in Animal Feed Additives on the Lifespan of Caenorhabditis Elegans

Yunji Seo, Yongchan Hong
ENVIRONMENT | SOUTH KOREA
Agricultural application of halobacteria and their compatible solutes in enhancing plant salinity endurance

Honorary awards

LONDON INTERNATIONAL YOUTH SCIENCE FORUM 2016

Torstein Vik
MATHEMATICS | NORWAY
Motivic Symbols and Classical Multiplicative Functions

Valerio Pagliarino
COMPUTING | ITALY
LaserWAN: laser broadband internet connection

STOCKHOLM INTERNATIONAL YOUTH SCIENCE SEMINAR 2016

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Ivo Zell
PHYSICS | GERMANY
A wing is enough: An improved flying wing based on a bell-shaped lift distribution

Special prizes

THE EUROPEAN SPACE AGENCY (ESA)

Kristjan Kongas
COMPUTING | ESTONIA
Simulation of the collision of binary white dwarfs using a cubic grid - stability analysis by variation of diffusion constant and resolution

THE EUROPEAN LABORATORY FOR PARTICLE PHYSICS (CERN)

Uladzislau Hadalau
COMPUTING | BELARUS
Geneces – Cloud EcoSystem EUROFusion - JET

Jaime Redondo Yuste
PHYSICS | SPAIN
A study of the interaction between a magnetic field and electrolytic ions

THE EUROPEAN SYNCHROTRON RADIATION FACILITY (ESRF)

Eliška Bršlicová
ENVIRONMENT | CZECH REPUBLIC
Subvolcanic intrusions in South Bohemia

THE EUROPEAN MOLECULAR BIOLOGY LABORATORY (EMBL)

Rūta Prakapaitė
MEDICINE | LITHUANIA
Antimicrobial bacteriophage dressing in chronic wound treatment

THE EUROPEAN SOUTHERN OBSERVATORY (ESO)

Tassilo Constantin Schwarz
COMPUTING | GERMANY
Drone detection system: Detection, tracking and classification of potentially dangerous flight objects for multicopter defence

THE INSTITUTE LAUELANGEVIN (ILL)

Balduin Dettling
ENGINEERING | SWITZERLAND
Development of a 3D Display

EUROPEAN X-RAY FREEELECTRON LASER FACILITY (XFEL)

Péter Udvardi
PHYSICS | HUNGARY
Microelectromechanical structure for sensing of low frequency sounds and vibrations

THE JOINT RESEARCH CENTRE (JRC)

Daniel Andreas Höllerer, Jonathan Reisinger
ENGINEERING | AUSTRIA
Slackline Tensioning System

Luc Régis Baudinaud, Florent Alexis Baubet, Alexis Nabil Bossard
PHYSICS | FRANCE
Diffusion compensation by anticipation

Sahar Roxanne El-Hady
CHEMISTRY | UNITED KINGDOM
How extreme was climate change in South Wales at the end of the last glacial period?

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Sponsors' prizes

THE INTEL ISEF 2016 PRIZES

Amalya Ben Asher, Yuval Feldman, Tal Cohen
MEDICINE | ISRAEL
Aggregated Drip Infusion System

Naama Schor
SOCIAL SCIENCES | ISRAEL
The morality of larks and owls: relationship between the biological clock and morality in decision making

Zane Grēta Grants, Daniela Gods-Romanovska
ENGINEERING | LATVIA
The textile-based tensoresistive sensors' operation and their usage in the innovative technologies

EUCHEMS

Christian Schärf, Paul Rathke, Friedrich Wanierke
CHEMISTRY | GERMANY
Alpha-aluminium oxide-based gemstones: Development of a chemical synthesis process prompted by current mining conditions

BBI

Modestas Gudauskas
BIOLOGY | LITHUANIA
Acetobacter spp. bacteria producing biopolymers simultaneously

FOODDRINKEUROPE

Daniel Vasilica Copil, Sofia Onorato
BIOLOGY | ITALY
Natural antimicrobial extracted from medicinal plants

DUPONT

Mari Louise Fufezan, Diana Bura
ENVIRONMENT | IRELAND
An Investigation into the Effects of Enzymes used in Animal Feed Additives on the Lifespan of Caenorhabditis Elegans

FERRERO

Adam Andor Urmos
CHEMISTRY | EUROPEANSCHOOLS
Multifunctional application of natural sensor arrays

NESTLE

Ana Milovanović, Ana Halužan Vasle
BIOLOGY | SLOVENIA
Designing Synthetic Gene Regulatory Networks

INNOVATION IN FOOD AND AGRICULTURE

Ivan Hristov Ivanov, Vasilen Rosenov Tsvetkov
ENGINEERING | BULGARIA
Intelligent Planting

SALVETTI FOUNDATION

Ethan Lee Dunbar-Baker, Po Yin Chau, Rogan Colin Michael McGilp
ENGINEERING | UNITED KINGDOM
David's Wheels; a disability accessible and driveable hot rod for social and physical mobility

PRACE

Eero Valkama, Iiro Kumpulainen
COMPUTING | FINLAND
Digitalization of Chess Games using Computer Vision

Tallinn 2017

FIRST PRIZES

Karina Movsesjan
BIOLOGY | CZECH REPUBLIC
The role of RAD51 mutations in cancer development

Adam Jan Alexander Ohnesorge
SOCIAL SCIENCES | SWITZERLAND
The forgotten prisoners – Civilian prisoners of the Great War in Corsica

Danish Mahmood
ENGINEERING | CANADA
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

SECOND PRIZES

Kamil Humański
ENVIRONMENT | POLAND
Taxonomic diversity of the Middle Ordovician – early Silurian echinoderms from Siljansringen, Sweden

Yana Zhabura
ENGINEERING | UKRAINE
Enhancement of technical capabilities of delta robot

Colette Benko
MEDICINE | CANADA
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

THIRD PRIZES

Florian Cäsar, Michael Plainer
MATHEMATICS | AUSTRIA
Sigma – Learning how computers learn

Chavdar Tsvetanov Lalov
MATHEMATICS | BULGARIA
The structure of self-avoiding walks and the connective constant

Arne Jakob Geipel, Matthias Paul Grützner, Julian Egbert
PHYSICS | GERMANY
Liquid stream hits rough surfaces – showing an extraordinary and stable wave pattern

Honorary awards

STOCKHOLM INTERNATIONAL YOUTH SCIENCE SEMINAR 2017

Kamil Humański
ENVIRONMENT | POLAND
Taxonomic diversity of the Middle Ordovician – early Silurian echinoderms from Siljansringen, Sweden

Yana Zhabur
ENGINEERING | UKRAINE
Enhancement of technical capabilities of delta robot

LONDON INTERNATIONAL YOUTH SCIENCE FORUM 2018

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BIOLOGY | CZECH REPUBLIC
The role of RAD51 mutations in cancer development

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SOCIAL SCIENCES | SWITZERLAND
The forgotten prisoners – Civilian prisoners of the Great War in Corsica

Chavdar Tsvetanov Lalov
MATHEMATICS | BULGARIA
The structure of self-avoiding walks and the connective constant

Special donated prizes

THE JOINT RESEARCH CENTRE (JRC)

Domen Kulovec, Uroš Prešern, Tristan Kovačič
MEDICINE | SLOVENIA
Active targeting of cysteine cathepsins with liposomes conjugated with cystatin C

Aleksander Paweł Kostrzewa
BIOLOGY | POLAND
A comparison of primates' memory and learnig skills, with use of an interactive platform in the Warsaw Zoological Garden

Solène Noémie Dumas-Grollier, Emma Marie-Christine Josette, Jacqueline Robin
PHYSICS | FRANCE
Les mystères de la Tasse (A mysterious cup)

THE INTEL ISEF 2018 PRIZES

Juan Sánchez Mateos, Claudia Rodríguez Rodríguez
BIOLOGY | SPAIN
On the structure and mechanics in vivo of the ostial cells and the aortic valve of the Drosophila melanogaster larva heart by analyzing high resolution microscopic images

Gabriel Silva Silva, Eduardo Teixeira Rocha Nogueira, Francisca Santos Martins
ENVIRONMENT | PORTUGAL
ShealS - Sea Heals Soil

Áron Molnár
ENGINEERING | HUNGARY
New high accuracy tilt sensor

Special donated prizes by The Eiroforum

THE EUROPEAN LABORATORY FOR PARTICLE PHYSICS (CERN)

Florian Cäsar, Michael Plainer
MATHEMATICS | AUSTRIA
Sigma – Learning how computers learn

EUROFUSION (JET)

Arne Jakob Geipel, Matthias Paul Grützner, Julian Egbert
PHYSICS | GERMANY
Liquid stream hits rough surfaces – showing an extraordinary and stable wave pattern

THE EUROPEAN MOLECULAR BIOLOGY LABORATORY (EMBL)

Nina Chiara Kathe
MEDICINE | SWITZERLAND
Small non-coding RNA induced gene silencing of tetracycline resistance gene in E. coli

THE EUROPEAN SOUTHERN OBSERVATORY (ESO)

Can Pak
PHYSICS | TURKEY
Measuring the surface vibration frequency with laser diode

THE EUROPEAN SPACE AGENCY (ESA)

Dávid Puskás
MATERIALS | HUNGARY
3D printed Moonbase

THE EUROPEAN SYNCHROTRON RADIATION FACILITY (ESRF)

Johannes Nicolas Waller, Philipp Nikolas Kessler
CHEMISTRY | GERMANY
Fehling's solution – Do we need a new interpretation?

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THE INSTITUTE LAUELANGEVIN (ILL)

Miroslav Kurka

PHYSICS | SLOVAKIA

Dynamic magnetization behavior in soft magnetic alloys of different structure

THE EUROPEAN X-RAY FREE-ELECTRON LASER FACILITY (XFEL)

Mykola Veremchuk

PHYSICS | UKRAINE

The investigation of the distribution of the density in gases using the Schlieren photography

Bioeconomy prizes

BBI JU

Gal Levy

ENVIRONMENT | ISRAEL

Production of biodiesel from organic wastes çby the "black-soldier" fly larvae

EUROPEAN FOOD AND DRINK INDUSTRY

Matas Aliuškevičius

ENGINEERING | LITHUANIA

Honeybee Colony Sounds Reveal Secrets of Life in Hives

DANONE

Kendra Zhang

ENVIRONMENT | USA

A paper-based microbial fuel cell for self-powered glucose monitoring in saliva

DSM

Camilla Hurst

MATERIALS | EUROPEAN SCHOOLS

The role of materials and surfaces in the transmission of bacteria in public places

PEPSICO

Ayumi Rie Mayer, Olivia Linnea Rygaard-Hjalsted

ENVIRONMENT | DENMARK

Sound PoliSea

EUROPEAN ASSOCIATION FOR CHEMICAL AND MOLECULAR SCIENCES (EUCHEMS)

Songrui Zhao

CHEMISTRY | CHINA

A Research on Synthesis, Characterization and CO2 Absorptive Character of Pyridinium-based Ionic Liquids

SWISS INTERNATIONAL TALENT FORUM

Alexandr Jankov

MATHEMATICS | CZECH REPUBLIC

The Basel problem

WOLFRAM RESEARCH

Andrei Shvedau, Nikolay Sheshko

MATHEMATICS | BELARUS

Any Heron Set can be Embedded in Z2

Andrei Shvedau, Nikolay Sheshko

MATHEMATICS | BELARUS

The Basel problem

Aleksandrs Jakovlevs, Edvards Janis Recickis

MATHEMATICS | LATVIA

Magic Polyiamonds

Alena Igorevna Teselkina

MATHEMATICS | RUSSIA

Centered figurate numbers

Tjaš Božič, Miha Torkar, Sara Maraž

MATHEMATICS | SLOVENIA

Origamics: Mathematical exploration of the equilateral triangle through paper folding

Adam Piotr Klukowski

MATHEMATICS | POLAND

The floor-polynomials

Gustav Møller Grimberg

MATHEMATICS | DENMARK

Use of comparative entropy analyses for dating and quantifying historical divergences between languages

Florian Cäsar, Michael Plainer

MATHEMATICS | AUSTRIA

Sigma – Learning how computers learn

Barry Philip Owiti

MATHEMATICS | FINLAND

An Application of Queuing Theory On Relief Systems

Chavdar Tsvetanov Lalov

MATHEMATICS | BULGARIA

The structure of self-avoiding walks and the connective constant

Special donated prizes

SALVETTI FOUNDATION

Philipp Sinnewe

ENGINEERING | GERMANY

A more energy-efficient aeroplane engine

PRACE

Adomas Paulauskas

COMPUTING | LITHUANIA

Virtual Reality Games for Rehabilitation

Host country awards

THE TALLINN CITY GOVERNMENT

Luís Miguel Afonso Pinto, Beatriz Sampaio Bastião, Olavo Filipe Estima Saraiva

ENGINEERING | PORTUGAL

EasyPark

MINISTRY OF EDUCATION AND RESEARCH

Gustav Møller Grimberg

MATHEMATICS | DENMARK

EasyPark Use of comparative entropy analyses for dating and quantifying historical divergences between languages

Dublin 2018

FIRST PRIZES

Adrian Fleck, Anna Amelie Fleck

MATERIALS | GERMANY

FleckProtec – Body Protec on Made From Starch

Nicolas Fedrigo

MEDICINE | CANADA

Improving Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches

Brendon Matusch

ENGINEERING | CANADA

Development of a Level 2 Autonomous Vehicle Using Convolutional Neural Networks and Reinforcement Learning

SECOND PRIZES

Alexandru Liviu Bratosin, Petru Molla, Mihnea Vlad Bojian

BIOLOGY | FRANCE

DNAdrive

Karl Hendrik Tamkivi

BIOLOGY | ESTONIA

Positioning of bat maternity roosts in relation to surrounding landscape complex in Western Saaremaa

Francisco Miguel Araújo

MATHEMATHICS | PORTUGAL

Commuta vity theorems for groups and semigroups

THIRD PRIZES

Marina Gudzhabidze, Dea Ilarionova, Shorena Gudzhabidze

PHYSICS | GEORGIA

Hand-Held Detector With Retroreflective Mosaic Screens To Visualize Optical Inhomogeneities

Kyuhee Jo, Chaeyoung Lee

COMPUTING | SOUTH KOREA

Building a robust classifica on model for speech-based Parkinson's Disease diagnosis

Sijia Zhang

SOCIAL SCIENCES | CHINA

Investigation into the Verbal Conflict Problem in Middle School Students' Families

Honorary awards

STOCHHOLM INTERNATIONAL YOUTH SCIENCE SEMINAR 2018

Adrian Fleck

MATERIALS | GERMANY

FleckProtec – Body Protec on Made From Starch

Francisco Miguel Araújo

MATHEMATHICS | PORTUGAL

Commutativity theorems for groups and semigroups

LONDON INTERNATIONAL YOUTH SCIENCE FORUM 2019

Anna Amelie Fleck

MATERIALS | GERMANY

FleckProtec – Body Protec on Made From Starch

Karl Hendrik Tamkivi

BIOLOGY | ESTONIA

Positioning of bat maternity roosts in relation to surrounding landscape complex in Western Saaremaa

Special donated prizes

JRC-JOINT RESEARCH CENTRE

3 prizes: two-day stays at the JRC's Institutes in Ispra, Italy

Aleksandar Kostadinov Shopov, Atanas Konstantinov Stefanov

PHYSICS | BULGARIA

Colour relations in young stellar objects

Lisa Battistini, Thomas Boissin, Léo-Nils Boissier

ENGINEERING | FRANCE

Eyeprint, give relief to your senses

Stefan Gruber-Hofer, Johannes Ortner, Michael Eder

ENGINEERING

Development of a sampler for solid recycled materials

INTEL ISEF 2019 Prizes

3 prizes: participate at Intel ISEF 2019, Phoenix (AZ), USA

Ivaylo Malinov Zhelev

COMPUTING | BULGARIA

Digital image denosing based on sphereconstrained total variation optimization with an additional noise component

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Ginés Marín Martínez
SOCIAL SCIENCES | SPAIN
Collaborative economy supended, The Legal Challenge of Uber and BlaBlaCar: Job Precarity? Unfair Competition?

Tobia Simon Ochsner
COMPUTING | SWITZERLAND
Creating playlists with artificial intelligence

Special donated prizes by The Eiroforum

EIROFORUM PRIZES
CERN - THE EUROPEAN LABORATORY FOR PARTICLE PHYSICS
One week stay in Geneva, Switzerland
Kasper Fredenslund
PHYSICS | DENMARK
Neural Networks for Detecting Elementary Particles

EUROFUSION - JET
One week stay at Culham, United Kingdom
Paraskevi-Marina Kandreli, Nikolaos-Panagiotis Kalampokis, Konstantinos Lolos
ENGINEERING | GREECE
Algorithm Guided Modular Probe (AGMP)

EMBL - THE EUROPEAN MOLECULAR BIOLOGY LABORATORY
One week in Heidelberg, Germany
Janka Motešická
MEDICINE | SLOVAKIA
Influence of PKC regulators on photodynamic therapy efficacy

ESO - THE EUROPEAN SOUTHERN OBSERVATORY
Visit to ESO site in Chile
Sébastien Christophe Garmier
PHYSICS | SWITZERLAND
cuRRay: CUDA ray tracer for light rays in relativistic Kerr-Newman spacetime

ESA - THE EUROPEAN SPACE AGENCY
Participate at a major European space sciencie conference under the sponsorship of the European Space Agency, including coverage of their travel and accommodation costs
Max von Wolff
PHYSICS | GERMANY
A method for particulate raindrop analysis contributing to more accurate weather forecasts

ESRF - THE EUROPEAN SYNCHROTRON RADIATION FACILITY
One week stay in Grenoble, France
Emily Shao Ting Xu
CHEMISTRY | UNITED KINGDOM
Chiral separation of racemic mixtures using liquid phase separation techniques with homochrical metal organic frameworks

ILL - THE INSTITUTE LAUELANGEVIN
One week stay in Grenoble, France
Ittai Eden
PHYSICS | ISRAEL
Paleomagnetic Dating of a Mud Brick Wall in Tel Megiddo

XFEL - THE EUROPEAN X-RAY FREEELECTRON LASER FACILITY
One week stay in Hamburg, Germany
Joshua Luke Mitchell
ENGINEERING | UNITED KINGDOM
The PlyBot - A Low-Cost Flatpack SCARA 3D Printer

Bioeconomy prizes

BBI JU
Study trip to Belgium
Gabija Imbrasaitė
MATERIALS | LITHUANIA
Bioplastic film with Penicillium roqueforti for pear preservation

THE EUROPEAN FOOD AND DRINK INDUSTRY
Ioanna Karaiskaki, Anna Maria Agathokleous, Pavlos Makrides
ENVIRONMENT | CYPRUS
Platics in the marine environment of Cyprus: monitoring and potential bioremediation strategies

CARGILL
Visit to its state of the art R&D centre at Vilvoorde, Belgium
João Maria Pinto Leite, Mário Jorge Queirós Ribeiro, Catarina Isabel Fonseca Brandão
ENVIRONMENT | PORTUGAL
ENTOFARM.PT

KERRY
Visitt back to Dublin for winning team
Blanka Novák
BIOLOGY | HUNGARY
Innovative approach to the an bacterial and prebiotic Lycium barbarum extract

TATE&LYLE
Visit to either France or Germany laboratories
Kārlis Emīls Vītols, Annija Kotova
BIOLOGY | LATVIA
The research of the feed base of Riga State German Grammar School's bee colonies

EUCHEMS
Leandra Marie Viktoria Zinke, Katarina Juhart, Sofia Quitter
CHEMISTRY | EUROPEAN SCHOOLS
Anti-Bacterial Silvernanoparticle Coating

SWISS INTERNATIONAL TALENT FORUM
Ivaylo Malinov Zhelev
COMPUTING | BULGARIA
Digital image denosing based on sphereconstrained total variation optimization with an additional noise component

SALVETTI FOUNDATION
Mariia Andreevna Solov
CHEMISTRY | RUSSIA
Protection of metal from destructive corrosion

PRACE
Visit to supercomputing center
Filip Kučerák
COMPUTING | SLOVAKIA
Trevo: Trees as a result of an algorithm

BULGARIAN MATHEMATICS SUMMER SCHOOL
Visit to Summer School in Bulgaria
Tobia Simon Ochsner
COMPUTING | SWITZERLAND
Creating playlists with artificial intelligence

EXPO SCIENCES LUXEMBOURG
Visit to Expo Sciences Luxembourg
Simon Meehan
BIOLOGY | IRELAND
Investiga on of an microbial effects of both aerial and sections parts of selected plants against Staphylococcus aureus

WOLFRAM RESEARCH
All Mathematics, Physics and Computing projects receive a one year licence to Mathematica and WolframAlphaPro

Host Orfanizer prizest

SCIENCE FOUNDATION IRELAND (SFI)
Qingyang Wang
PHYSICS | CHINA
The Study of Carbon Dots Synthesis and Fluorescence with Assistance of Mihcroplasma Processing

IRISH RESEARCH COUNCIL
Dahyeon Choi
ENGINEERING | SOUTH KOREA
Development of an interactive and dynamic artificial intelligence storytelling system based on neural conversation models and speech recognition

INSTITUTE OF PHYSICS
Daniel Zion Kang
MATERIALS | USA
Paintable Electronics - Novel Graphene Acrylic Thin Film

Sofia 2019

FIRST PRIZES

Leo Li Takemaru, Poojan Pandya
BIOLOGY | USA
Investigating the Role of the Novel ESCRT-III Recruiter CCDC11 in HIV Budding: Identifying a Potential Target for Antiviral Therapy

Adam Kelly
COMPUTING | IRELAND
Optimised Simulation of General Quantum Circuits

Alex Korocencev, Felix Sewing
ENGINEERING | GERMANY
Hoverboard – a Magnetically Levitated Vehicle

Magnus Quaade Oddershed
ENGINEERING | DENMARK
The wingtip's influence on the efficiency of airplane wings

SECOND PRIZES

Saba Gogichaishvili, Nia Gogokhia
CHEMISTRY | GEORGIA
Novel Biodegradable Polymer for Pharmaceutical Applications

Olli Järviniemi
MATHEMATICS | FINLAND
On the Common Prime Divisors of Polynomials

Jaehyun Lee
PHYSICS | SOUTH KOREA
Introduction of a Novel Diodicity Evaluation Criteria and 1-D Approximate Model for Multistaged NMP (No-Moving-Parts) Check Valves and Methods for Valve Stage Optimization

Claudia Lídia Pubill Quintillà
SOCIAL SCIENCES | SPAIN
With Death at His Heels. Chronicle of an Escape and Two Wars

THIRD PRIZES

Antoni Ignacy Lis – Poland
CHEMISTRY | POLAND
Nanoparticles in antitumor therapy

Noah Scheiring, Andreas Ladner, Tobias Schauer
ENGINEERING | SWITZERLAND
Diffrec PRO

Océane Zofia Adrienne Patiny
ENGINEERING | CHINA
Remote Controlled Cylinder

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Aliaksandr Piachonkin
MATHEMATICS | BELARUS
On the number of points on an algebraic curve in a ring of residues

Honorary awards

LONDON INTERNATIONAL YOUTH SCIENCE FORUM (LIYSF)
All-expenses paid trip to London to attend the London International Youth Science Forum (LIYSF)

Adam Kelly
COMPUTING | IRELAND
Optimised Simulation of General Quantum Circuits

Magnus Quaade Oddershede
ENGINEERING | DENMARK
The wingtip's influence on the efficiency of airplane wings

Olli Järviniemi
MATHEMATICS | FINLAND
On the Common Prime Divisors of Polynomials

STOCKHOLM INTERNATIONAL YOUTH SCIENCE SEMINAR (SIYSS)
All-expenses paid trip to Stockholm to attend the Stockholm International Youth Science Seminar (SIYSS) and the Nobel Prize Ceremony

Alex Korocencev, Felix Sewing
ENGINEERING | GERMANY
Hoverboard – a Magnetically Levitated Vehicle

Special awards

THE EUROPEAN SPACE AGENCY (ESA)
Attend a major space science conference in Europe or to spend a week at ESA's main technical centre, ESTEC, in The Netherlands

Océane Zofia Adrienne Patiny
ENGINEERING | SWITZERLAND
Remote Controlled Cylinder

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH (CERN)
A week's visit to CERN Geneva site

Mateusz Mazurkiewicz, Łukasz Gałecki, Jan Struzińsk
ENGINEERING | POLAND
High Altitude Micro Air Vehicle

EUROFUSION (JET)
One week stay at their Culham, Oxfordshire, UK site

Manning Whitby
ENGINEERING | CANADA
An Interpretation of Life Through Vibration Motors

EUROPEAN SYNCHROTRON RADIATION FACILITY
One week visit to ESRF site in Grenoble

Alexandr Zarivnij
MEDICINE | CZECHIA
Inhibition of glutamate excitotoxicity in glaucoma by liposomes

THE EUROPEAN MOLECULAR BIOLOGY LABORATORY (EMBL)
A week's placement at EMBL premises in Heidelberg, Germany

Mattias Akke, Elsa Axby
CHEMISTRY | SWEDEN
Catching the Bad Guys: Capturing Oligomers of the Amyloid-beta Peptides

EUROPEAN SOUTHERN OBSERVATORY (ESO)
A visit to ESO facilities in Chile including trips to the Paranal Observatory and ESO's Scientific Centre in Santiago, Chile

Ségolène Mosser, Louise Richard, Hugo Montan
PHYSICS | FRANCE
Advanced ARAGO, a „gravitational wave" detector

THE INSTITUT LAUE-LANGEVIN (ILL)
One week visit to their Grenoble site

Nadia Brzostowicz
PHYSICS | SPAIN
Acoustic levitation. Building and analyzing two different acoustic levitators based on piezoelectric transducers, and exploring its current and possible future applications using simple physical and chemical experiments

EUROPEAN X-RAY FREE-ELECTRON LASER FACILITY GMBH (XFEL.EU)
One week placement at their site near Hamburg, Germany

Roman Rouba
PHYSICS| BELARUS
Investigation of the Prince Rupert's drop properties

Sponsor' awards

EUROPEAN ASSOCIATION FOR CHEMICAL AND MOLECULAR SCIENCES (EUCHEMS)
A prize of €1000

Zeyad Bady
CHEMISTRY | EGYPT
High particulate matter filtration efficiency Nano-fibrous membrane

EUCYS BIOECONOMY BIO-BASED INDUSTRIES
A paid 5-day trip to Brussels for the winning project including travel to/from, accommodation and daily allowance in Brussels and participating in a tailor-made experience related to the science behind the BBI JU programme

Ronja Holopainen
MATERIALS | FINLAND
EcoMe: a reusable, ecological and affordable menstrual hygiene product for developing regions

EUROPEAN FOOD AND DRINK INDUSTRY
A check for 2,000 euros

Emma Nielsen
ENVIRONMENT | DENMARK
MOOSIC: a mean for productivity optimisation

UNILEVER
A two-day mini-internship, he will get to experience how products from brands like Knorr, Hellmann's and Lipton are being developed

Miklós Zsigó
ENGINEERING | HUNGARY
Moth.NET

PEPSICO
A day at our Beaumont Park R&D centre in the UK, following a range of different activities with our R&D team

Hannah Schatz, Yasemin Gedik
ENVIRONMENT | AUSTRIA
Microplastic on our doorstep

EXPO-SCIENCES LUXEMBOURG
Present his project alongside our national participants

Zvezdin Besarabov
COMPUTING | BULGARIA
Distributed creation of Machine learning agents for Blockchain analysis

INTERNATIONAL SWISS TALENT FORUM (ISTF)
Participate at The International Swiss Talent Forum – February 5th – 8th 2020

Elisa Seghetti
SOCIAL SCIENCES | ITALY
OnMind: an IoT wearable biofeedback system for the treatment of psychosomatic disorders

JOINT RESEARCH CENTRE (JRC)
A two day stay at its Ispra site in Italy

María Bouso Posada, Xiana Rego Fernández, Ana Rubal Sánchez
BIOLOGY | SPAIN
O da la miúda. Distribution, ethology and phenology of the Iberian wolf

Jannik Wyss
BIOLOGY | SWITZERLAND
Gene regulation during development: The roles of the genes xbp1, creb3l1 and creb3l2 in axial mesoderm differentiation

Andrey Gizdov
MEDICINE | BULGARIA
A novel method for skeletal age estimation based on cranial suture analysis

Elias Elias
MEDICINE | ISRAEL
The effect of the E12 antibody on multiple sclerosis

Host country awards

INTERNATIONAL STUDENTS OF HISTORY ASSOCIATION (ISHA)
Parcipate in a relevant conference and present their results

Claudia Lídia Pubill Quintillà
SOCIAL SCIENCES | SPAIN
With Death at His Heels. Chronicle of an Escape and Two Wars

BULGARIAN SUMMER RESEARCH SCHOOL
Participate in the Summer Research School of the Bulgarian High School Students Institute of Mathematics and Informatics

Aalia Sellar, Brendan Miralles, Grace Lord
COMPUTING | UNITED KINGDOM
Music Splash

Alexander Alexandrovich Sokko
ENGINEERING | RUSSIA
Next generation of solid-fuel rocket engines

NATIONAL WORKSHOP ON CODING THEORY "PROFFESSOR STEFAN DODUNEKOV"
Parcipate in the next edition of NWCT (November 2019, Chiflika, Bulgaria)

Ján Varga
COMPUTING | SLOVAKIA
Prevention of Cheating in eSports

Constantin Schott
MATHEMATICS | GERMANY
Neural Network application to key-point-detection in radiographs

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