







# ALL FORMER WINNERS



# **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 recon-

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

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### 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

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

**GFRMANY** 

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 focuss

# **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

TALY

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

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# 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 Rodrí-

guez

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

Nicolas Rebierre, Olivier Rebierre, Olivier Pesle

FRANCE

Real speed

Stéphan Fidanza, Olivier Pesc

**FRANCE** 

Space-time theory

Sara Azimonti, Elena Porazzi, Giovanni Colombo Bolle

TALY

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 Schmid-

bauer

**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

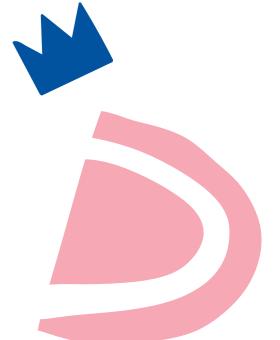
The role of the thiamine in neuthrophil phagocytic activity in

Kenna Mills, Diego Figueroa

smokers and nonsmokers

USA

Water detoxification using duckweed



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# NEWCASTLE UP-ON-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

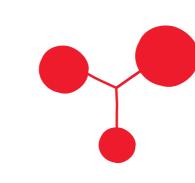
UNITED KINGDOM

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 associa-

tions

Patricia Lyne, Rowena Mooney, Elsie O'Sullivan

RELAND

Analysis of indigenous Irish strains of honeybee

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

## FIRST PRIZES

Eike Hübner

GERMANY

Permanent self-conducting polymers

**MILAN 1997** 

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

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# **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

OLAND

Chemical synthesis of amionalkyl nucleoside phosph









# 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

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



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# **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 Hungar-

ian 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

AUSTRIA | ENGINEERING

Breakthrough in the manufacturing of condenser microphones

**Charlotte Stranvist** 

DENMARK | CHEMISTRY

Improving the method of synthesizing antidepressants

Mario Chemnitz

GERMANY | PHYSICS

Ultrasonic detector for gas chromatography

### **SECOND PRIZES**

Marcel Kolodziejcyk

POLAND | MATHEMATICS

A counterfeit coin problem

**Roland Bauerschmidt** 

GERMANY | COMPUTER

Internet access for guests

Mehmet Halit Calayir, Mehmet Cakan

TURKEY | PHYSICS

Construction of a seismograph

THIRD PRIZES

Ocan Sankur

TURKEY | COMPUTER

N-gram based language classification

Artur Lewandowski

POLAND | BIOLOGY

Ants learning process

Laurynas Pliuskys

LITHUANIA | ENVIRONMENT

Hydrochemical analysis of the lakes of Trakai



# MOSCOW 2005

### **FIRST PRIZES**

Igor Gotlibovitch, Renate Landig

GERMANY | PHYSICS

Corners in water - unexpected symmetry breaking in fluid dynam-

CS

Javier Lopez Martinez Fortun, Eliecer Perez Robaina, Carlos

Machado Carvajal

SPAIN | BIOLOGY

Sonchus leptacaulis: a new species consolidation in Gran Canaria

Silvana Konermann

SWITZERLAND | MEDICINE

Development of a system for the local prevention of catheter

associated urinary tract infection

### **SECOND PRIZES**

Zdenek Janovosky

CZECH REPUBLIC | ENVIRONMENT

Vegetation dynamics of the small forest and open landscape ponds and its historical causes

Stephen Schulz

GERMANY | CHEMISTRY

Lab on the chip - new perspectives with electrons as universal reagent

**Patrick Collison** 

IRELAND | COMPUTER

Croma: a new dialect of lisp

Gitte Ahlquist Jonsson

DENMARK | MEDICINE

Aid for putting on and taking off stockings for handicapped persons

Margus Niitsoo

ESTONIA | MATHEMATICS

Generalizations of the Fibonacci sequence

Eric Deele, Pierre Haas

LUXEMBOURG | BIOLOGY

Cartography of galls

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# STOCKHOLM 2006

### **FIRST PRIZES**

### Michael Kaiser, Johannes Kienl

AUSTRIA | ENGINEERING

Development of a completely new electro-thermo-mechanical

De-Icing system for aircraft

### Johannes Burkart, Alexander Joos

GERMANY | PHYSICS

Flight curves of table tennis balls

### **Tomasz Wdowik**

POLAND | CHEMISTRY

Synthesis of a potential (beta)-blocker

### **SECOND PRIZES**

### **Thomas Gigl**

GERMANY | EARTH SCIENCE

Radial velocity measurement of spectroscopic binaries

### Michael Marcinkowski

POLAND | MATHEMATICS

On a geometric transformation relating the Euler and Nagel lines

### Zoltan Tarjanyi, Csaba Vass

HUNGARY | BIOLOGY

New diagnostic method to define the errors of the apoptosis program

### THIRD PRIZES

### Georgi Dyankov

**BULGARIA | PHYSICS** 

A method of measurement of refractive indices, birefringence and thickness of a thin anisotropic layer

### **Aisling Judge**

IRELAND | BIOLOGY

The development and evaluation of a biological food spoilage indicator

# VALENCIA 2007

### **FIRST PRIZES**

### Florian Ostermaier, Henrike Wilms

GERMANY | PHYSICS

Flashing Water Drops

### Márton Spohn

HUNGARY | CHEMISTRY

Examination of Plants' Self-Defence Against Pests

### Abdusalam Abubakar

IRELAND | MATHEMATICS

An Extension of Wiener's Attack on RSA Encryption

### **SECOND PRIZES**

### Martina Hafner

AUSTRIA | ENVIRONMENT

Energy from maize straw

### Anne-Laure Delaye, Aude Latrive, Astrid Verpeaux

FRANCE | PHYSICS

Can we walk on water?

### Yael Amarilyo

ISRAEL | BIOLOGY

Molecular Identification and Characterization of Phytoplasma Bacteria in Grapevines – Another Milestone Saving the Wine Industry

### **THIRD PRIZES**

### Julian Glechner, Werner Pollhammer, David Stockinger

AUSTRIA | ENGINEERING

Latent heat storage system (Salt crystal as a new energy storage technology)

### Eva Černohorská

CZECH REPUBLIC | MATHEMATICS

Generalization of method of tiling in triangular and hexagonal grid

### Florian Schnös

GERMANY | ENGINEERING

SmartCam - Development of a universal 3D-Camera



# COPENHAGEN 2008

### **FIRST PRIZES**

### Magdalena Bojarska

POLAND | MATHEMATICS

Hamiltonian cycles in generalized

### Halin grap, Martin Tkáč

SLOVAK REPUBLIC | ENGINEERING

Tilting of bulk materials based on gravitation principle in cargo railway transport

### Elisabeth Muller

UNITED KINGDOM | EARTH SCIENCE

From Microcosm to Magma Oceans: A Lunar Meteorite Perspective

### **SECOND PRIZES**

### Michael Mikát

CZECH REPUBLIC | BIOLOGY

Ecology and Ethology of family Lestidae (Insecta: Odonata)

### **David Wittkowski**

GERMANY | PHYSICS

Polygonal structures on rotating fluid surfaces

### Émer Jones

IRELAND | ENGINEERING

Research and Development of Emergency Sandbag Shelters

### THIRD PRIZES

### **Aliaksandr Minets**

**BELARUS | MATHEMATICS** 

Orbital origamis and stabilizers of stair origamis

### Etienne Lalique, Axel Talon

FRANCE | PHYSICS

Phaethon, the solar balloon

### Eriks Zaharans, Janis Zaharans

LATVIA | PHYSICS

Monitoring of cardiovascular system

# **PARIS 2009**

### **FIRST PRIZES**

### Liam McCarthy, John D. O'Callaghan

IRELAND | BIOLOGY

The Development of a Convenient Test Method for Somatic Cell Count and it's Importanc in Milk Production

### **Fabian Gafner**

SWITZERLAND | PHYSICS

Dikranos – the airplane with reverse gear

Aleksander Kubica, Wiktor Pilewski

POLAND | PHYSICS

Spiral Zone Plates

### **SECOND PRIZES**

Elodie Aubanel, Jérémy Dargent, Arnaud De Richecour

FRANCE | PHYSICS

Pick Up a Cosmic Wink

### Philip Cardona

MALTA | ENGINEERING

Cappucino Logo Printer

### Sara Vima Grau

SPAIN | EARTH SCIENCE

From mineral to Romanesque altarpiece: Identification of mineral pigments and reproduction of a Catalan Romanesque altarpiece

### **THIRD PRIZES**

### Áron Hunyadi

HUNGARY | ENGINEERING

Walking through (a piece of) time with a timepiece

### Stefan Strobel

GERMANY | COMPUTING

Development of a near-infrared vein imaging system

### Omri Lesser

ISRAEL | PHYSICS

The Complex Potential and Its Application to the Planning of Dams

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# **LISBON 2010**

### **FIRST PRIZES**

### Miroslav Rapcak

CZECH REPUBLIC | PHYSICS

Complete Phase Diagram Of CO2 Nanoclusters

### David Pegrimek, Lukasz Sokolowski

POLAND | BIOLOGY

Foraging Strategy Of The Ant Formica Cinerea

### Dávid Horváth, Márton Balassi

HUNGARY | SOCIAL SCIENCES

Nature On Your Screen - Computer Based Modeling And Local Area Network In The Education Of Ecology

SECOND PRIZES

### Justyna Slowiak

Justylla Slowlak

POLAND | BIOLOGY

Biodiversity, Palaeoecology And Taxonomical Position Of Vertebrates In The Middle Triassic Sea Ecosystem In Silesia (sw

Poland)

### Simon Schuldt

GERMANY | ENGINEERING

Aircraft Of The Future - A Practise based School Project

### Luca Banszerus, Michael Schmitz

GERMANY | PHYSICS

Production And Charaterization Of Graphene Devices

### **THIRD PRIZES**

### Aleksejs Sazonovs

LATVIA | COMPUTING

Applying Image Recognition Methods For Classification Of Astronomical Images

### Davide Giacinto Lucarelli, Niccolò Pozzi, Stefano Sanfilippo

ITALY | MATHEMATICS

An Analysis of the Network

### Inês Alexandra, Costa Kristoffer de Sá Høg

PORTUGAL | ENVIRONMENT

Rocks Of The Southwest - The Mysteries Written On The Stone

# HELSINKI 2011

### **FIRST PRIZES**

### Alexander Amini

IRELAND | COMPUTING

Tennis Sensor Data Analysis: An Automated System for Macro Motion Refinement

### Pius Markus Theiler

SWITZERLAND | ENGINEERING

pi Cam - The Development of a Camming Device for Climbing

### Povilas Kavaliauskas

LITHUANIA | MEDICINE

The Role of Houseflies (Musca domestica) in Spreading Antibiotic

Resistant Bacteria

### **SECOND PRIZES**

### **Benjamin Walter**

GERMANY | PHYSICS

Scanning Tunnelling Microscopy of Coronene Molecules on Ger-

manium (111)

### Natalie Mitchell

UNITED KINGDOM | PHYSICS

Auto Focusing Methods for Digital Microscopy

### Georgi Atanasov, Georgi Georgiev, Kalina Petrova

**BULGARIA | COMPUTING** 

DriveFreeZ - Driving Simulator

### **THIRD PRIZES**

### Alex Bergsåker

NORWAY | SOCIAL SCIENCES

Guanxi - the Significance of Relations and Social Networks in

Chinese Business

### Michal Miskiewicz

POLAND | MATHEMATICS

The Charm of the 'mi' Set

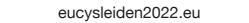
### **Holly Rees**

UNITED KINGDOM | BIOLOGY

Investigation into Embryonic Stem Cell Differentiation



NARE TC) TAKE THE LEAP



# **BRATISLAVA 2012**

### **FIRST PRIZES**

Mark James Kelly, Eric Doyle

IRELAND | PHYSICS

Simulation accuracy in the gravitational many-body problem

Jakub Nagrodzki

POLAND | CHEMISTRY

Development of molecular patches therapy: trimethylguanosine cap analogues synthesis

Philip Huprich, Manuel Scheipner, Daniel Zind

AUSTRIA | ENGINEERING

Cam Guard

### **SECOND PRIZES**

**Nevzet Khasanov** 

SWITZERLAND | PHYSICS

Diffusion cloud chamber: the visible radioactivity

Jan Michael Rapp, Timo Schmetzer

GERMANY | COMPUTING

Information technology for a feedback control

Asbjørn Christian Nordentoft

DENMARK | MATHEMATICS

Applications of Dirichlet series

### **THIRD PRIZES**

Anna Maria Punab

ESTONIA | SOCIAL SCIENCES

The relationships between academic achievements and happiness among students in secondary education

Anna Julia Kuśnierczak

POLAND | BIOLOGY

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** 

BELARUS | COMPUTING

Development of hardware and software complex for the formation of threedimensional image

# **PRAGUE 2013**

### **FIRST PRIZES**

Perttu Pölönen

FINLAND | SOCIAL SCIENCES

Music A'Clock

Ciara Judge, Emer Hickey, Sophie Healy-Thow

IRELAND | BIOLOGY

A statistical investigation of the effects of diazotroph bacteria on plant germination

Frederick Turner

UNITED KINGDOM | ENGINEERING

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

AUSTRIA | ENGINEERING

Anastomose Robot Tool - ART

Lennart Kleinwort

GERMANY | COMPUTING

FreeGeo – the world's first dynamic Android mathematics system

Jasmin Allenspach

SWITZERLAND | MATHEMATICS

LSLLSLSLLSLS - Modern Mathematics in Islamic Mosaics

### **THIRD PRIZES**

Balázs Zsombori

HUNGARY | COMPUTING

PiktoVerb - Giving Everyone a Voice

**Daniel Pflueger** 

GERMANY | PHYSICS

Measuring water waves

Maksim Bezrukov, Aliaksandr Stadolni

BELARUS | MATHEMATICS

Percolation games on Cayley graphs of groups

# **WARSAW 2014**

### **FIRST PRIZES**

Luboš Vozdecký

CZECH REPUBLIC | PHYSICS

Rolling Friction

Mariana de Pinho Garcia, Matilde Gonçalves Moreira da Silva

PORTUGAL | BIOLOGY

**Smart Snails** 

João Pedro Estácio Gaspar, Gonçalves de Araújo

PORTUGAL | MATHEMATIC

A natural characterization of semilattices of rectangular bands

and groups of exponent two

### **SECOND PRIZES**

**Paul Clarke** 

IRELAND | MATHEMATICS

Contributions to cyclic graph theory

Aleš Zupančič

SLOVENIA | CHEMISTRY

Self-cleaning fabrics based on nanocovers

Petar Milkov Gaydarov

BULGARIA | MATHEMATICS

Hamming Distance of Polynomials over GF(2)

### **THIRD PRIZES**

Philipp Mandler, Anselm Bernhard PeterDewald, Robin Braun GERMANY | ENGINEERING

Hexapod - Construction and Programming of a six-legged exploration robot

**Matas Navickas** 

LITHUANIA | BIOLOGY

Flowering Apple Tree "Malus baccata x Malus prunifolia" in vitro

Ameeta Kumar, Aneeta Kumar

UNITED KINGDOM | MEDICINE

pHLIP? Beacon of hope

# **MILAN 2015**

### **FIRST PRIZES**

Sanath Kumar Devalapurkar

UNITED STATES | MATHEMATICS

On the Stability and Algebraicity of Algebraic K-theory

Michał Baczyk, Paweł Piotr Czyż

POLAND | PHYSICS

The studies of behaviour of single and coupled on-off type oscillators on the example of bottle oscillators

Lukas Stockner

GERMANY | COMPUTING

Statistical modeling of volumescattered light

### **SECOND PRIZES**

Michael Bayrhammer, Florian Thaller

AUSTRIA | MEDICINE

Tendon Tissue Engineering - Development of a Novel Tissue Bioreactor for Culturing Tendons

Polina Vladislavovna Ledkova

RUSSIA | ENVIRONMENT

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

POLAND | MEDICINE

Origami BioBandage - mathematically described multipotential bioimplant based on polymeric nanomaterial modified by hydroxyapatite and stem cells

### **THIRD PRIZES**

**Timothy Matthew Logan** 

NEW ZEALAND | ENVIRONMENT

To Graze or Not to Graze?

Anselm von Wangenheim

GERMANY | PHYSICS

Monopod - Physics at the tipping point

Katariina Kisand

ESTONIA | CHEMISTRY

Synthesis and biochemical characterization of covalent fluorescent probes targeting mitotic protein kinase Aurora A





# **BRUSSELS 2016**

### **FIRST PRIZES**

### Ane Kristine Espeseth, Torstein Vik

NORWAY | MATHEMATICS

Motivic Symbols and Classical Multiplicative Functions

### Valerio Pagliarino

ITALY | COMPUTING

LaserWAN: laser broadband internet connection

### **River Connell Grace**

USA | BIOLOGY

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**

GERMANY | COMPUTING

Drone detection system: Detection, tracking and classification of potentially dangerous flight objects for multicopter defence

### **Kayley Noelle Ting**

CANADA | MEDICINE

Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

### Ivo Zell

GERMANY | PHYSICS

A wing is enough: An improved flying wing based on a bellshaped lift distribution

### **THIRD PRIZES**

### Tomáš Heger

CZECH REPUBLIC | MEDICINE

Biological activity of essential oils and extracts from narrow-leaved lavender (Lavandula angustifolia Mill.) flower

### Mari Louise Fufezan, Diana Bura

IRELAND | ENVIRONMENT

An Investigation into the Effects of Enzymes used in Animal Feed Additives on the Lifespan of Caenorhabditis Elegans

### Yunji Seo, Yongchan Hong

SOUTH KOREA | ENVIRONMENT

Agricultural application of halobacteria and their compatible solutes in enhancing plant salinity endurance

# **TALLINN 2017**

### **FIRST PRIZES**

### Karina Movsesjan

CZECH REPUBLIC | BIOLOGY

The role of RAD51 mutations in cancer development

### Adam Jan Alexander Ohnesorge

SWITZERLAND | SOCIAL SCIENCES

The forgotten prisoners – Civilian prisoners of the Great War in Corsica

### **Danish Mahmood**

CANADA | ENGINEERING

W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

### **SECOND PRIZES**

### Kamil Humański

POLAND | ENVIRONMENT

Taxonomic diversity of the Middle Ordovician – early Silurian echinoderms from Siljansringen, Sweden

### Yana Zhabura

UKRAINE | ENGINEERING

Enhancement of technical capabilities of delta robot

### Colette Benko

CANADA | MEDICINE

Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

### **THIRD PRIZES**

### Florian Cäsar, Michael Plainer

AUSTRIA | MATHEMATICS

Sigma – Learning how computers learn

### **Chavdar Tsvetanov Lalov**

**BULGARIA | MATHEMATICS** 

The structure of self-avoiding walks and the connective constant

### Arne Jakob Geipel, Matthias Paul Grützner, Julian Egbert

GERMANY | PHYSICS

Liquid stream hits rough surfaces - showing

# **DUBLIN 2018**

### **FIRST PRIZES**

### Adrian Fleck, Anna Amelie Fleck

GERMANY | MATERIALS

FleckProtec - Body Protec on Made From Starch

### Nicolas Fedrigo

CANADA | MEDICINE

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

### **Brendon Matusch**

CANADA | ENGINEERING

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

### **SECOND PRIZES**

### Alexandru Liviu Bratosin, Petru Molla, Mihnea Vlad Bojian

FRANCE | BIOLOGY

**DNAdrive** 

### Karl Hendrik Tamkivi

ESTONIA | BIOLOGY

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

### Francisco Miguel Araújo

PORTUGAL | MATHEMATHICS

Commuta vity theorems for groups and semigroups

### **THIRD PRIZES**

### Marina Gudzhabidze, Dea Ilarionova, Shorena Gudzhabidze

GEORGIA | PHYSICS

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

### Kyuhee Jo, Chaeyoung Lee

SOUTH KOREA | COMPUTING

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

### Sijia Zhang

CHINA | SOCIAL SCIENCES

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

# **SOFIA 2019**

### **FIRST PRIZES**

### Leo Li Takemaru, Poojan Pandya

USA | BIOLOGY

Investigating the Role of the Novel ESCRT-III Recruiter CCDC11 in HIV Budding: Identifying a Potential Target for Antiviral Therapy

### Adam Kelly

IRELAND | COMPUTING

Optimised Simulation of General Quantum Circuits

### Alex Korocencev, Felix Sewing

GERMANY | ENGINEERING

Hoverboard - a Magnetically Levitated Vehicle

### Magnus Quaade Oddershed

DENMARK | ENGINEERING

The wingtip's influence on the efficiency of airplane wings

### **SECOND PRIZES**

### Saba Gogichaishvili, Nia Gogokhia

GEORGIA | CHEMISTRY

Novel Biodegradable Polymer for Pharmaceutical Applications

### Olli Järviniemi

FINLAND | MATHEMATICS

On the Common Prime Divisors of Polynomials

### Jaehyun Lee

SOUTH KOREA | PHYSICS

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

SPAIN | SOCIAL SCIENCES

With Death at His Heels. Chronicle of an Escape and Two Wars

### **THIRD PRIZES**

### Antoni Ignacy Lis - Poland

POLAND | CHEMISTRY

Nanoparticles in antitumor therapy

### Noah Scheiring, Andreas Ladner, Tobias Schauer

SWITZERLAND | ENGINEERING

Diffrec PRO

### Océane Zofia Adrienne Patiny

CHINA | ENGINEERING

Remote Controlled Cylinder

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### **Aliaksandr Piachonkin**

**BELARUS | MATHEMATICS** 

On the number of points on an algebraic curve in a ring of resi-

# **SALAMÂNCA** 2020/2021

### **FIRST PRIZES 2020**

### Feridun Balaban

TURKEY | PHYSICS

Investigation of Spectral Response and Efficiency of Boron and Nitrogen doped Diamond-like carbon as a Top Junction on Multijunction Solar Cells

### Cormac Thomas Harris, Alan Thomas O'Sullivan

IRELAND | SOCIAL SCIENCES

A statistical investigation into the prevalence of gender stereotyping in 5-7 year olds and the development of an initiative to combat gender bias.

### **FIRST PRIZES 2021**

### Viktor Stilianov Kolev

**BULGARIA | COMPUTING** 

Neural Abstract Reasoner

### Marik Müller

GERMANY | BIOLOGY

Enzymatic inactivation of the veterinary antibiotic Florfenicol

### Carla Caro Villanova

SPAIN | COMPUTING

Formulation and implementation of a support vector machine on D-Wave's quantum annealer

### Illia Nalyvaiko

UKRAINE | MATHEMATICS

Properties of possible counterexamples to the Seymour's Second Neighborhood Conjecture

### **SECOND PRIZES 2020**

### Ophélie Léna Rivière

SWITZERLAND | PHYSICS

Sinking Bubbles - On the Behavior of Air Bubbles in a Vertically Oscillating Column of Liquid

### Yordan Tsvetkov Tsvetkov

**BULGARIA | ENGINEERING** 

Training Quadrupeds to Walk via Evolution Strategies and Sinusoidal Activation Functions

### **SECOND PRIZES 2021**

### Mehmet Sertaç Çeküç

TURKEY | CHEMISTRY

Artificial Antibodies: Development of Micro-Fluidic Sensors for

The Detection of Environmental Contaminants and Apply to Mathematical Models

### **Hardit Singh**

CANADA | MEDICINE

Speculor: A Comprehensive Teleophthalmology Platform for People Centered Eyecare

### Sophie Lynn Wiesmann

SWITZERLAND | BIOLOGY

Temperature-dependent toxin production of the cyanobacterium Microcystis aeruginosa

### Giovanni Benetti

ITALY | PHYSICS

Distorted Interstellar Bubbles: a new mathematical and computational model

### **THIRD PRIZES 2020**

### **Dmitriy Gorovoy**

BELARUS | MATHEMATICS

On graphs with unique geodesics or antipodes

### Jarosław Jakub Brodecki

POLAND | ENVIRONMENT

An assessment of the pollution of urban rivers by microplastics and their penetration of food webs based on the example of the river system in the Łódź agglomeration (central Poland)

### **THIRD PRIZES 2021**

### **Gregory Guy Tarr**

IRELAND | COMPUTING

Towards detecting state-of-the-art deepfakes

### **Matus Mlynar**

SLOVAKIA | MEDICINE

The dynamic effect of oxytocin treatment on autistic-like behaviors in a genetic model of autism

### Emirhan Kurtuluş

TURKEY | COMPUTING

DEEP LEARNING BASED STEREOTACTIC CRANIAL SURGERY **PLANNING** 

### Michal Bravanský

CZECHIA | COMPUTING

Be Informed: a news agregator

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