

2015 VIENNA INTERNATIONAL SCIENCE AND ENGINEERING FAIR

Award	Project	Project Name	Student(s)	SCHOOL	REASON FOR AWARD
BEST OF CATEGORY					
Best of Category J-1 COMPUTER, SPACE & ENVIRONMENTAL SCIENCES	J1-5	The Effect of Detergents on Oil Stains	Paulina Olszewska Nooralhuda Kwrbou	Riverside Prague	Clear and reasoned hypothesis; consistent variables and procedures for a fair test; clear, concise observations; display was well organized, easy to read, enticing to the reader; methodology was well thought out; worked well as a team; good presentation skills; good grasp and use of scientific method.
Best of Category J-2 HEALTH & LIFE SCIENCES	J2-2	Can Money Spread Disease?	Matthew Entwistle George Daish	Riverside Prague	Clear understanding and application of scientific process; very innovative and knowledgeable presentation; well designed and documented experiment; interesting experiment with significant results.
Best of Category J-3 HUMAN BEHAVIOUR	J3-7	Does your interest in different styles of music impact the perception of time?	Helia Nahidi	Amadeus School	Well thought out; very focussed work; nice methodology; creative thinking and approach; coherent presentation of data; positive thinking and good oral skills.
Best of Category J-4 MACHINES AND TECHNOLOGY	J4-9	How to pull pulleys	Serafina Zotter Romy O'Sullivan Christina Henzinger	Lycee Francais de Vienne	Good scientific approach; good construction of the experiment; the identified results translated to real life; very good team work.

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Best of Category J-5 PHYSICAL PRINCIPLES	J5-3	Proving Snell's Law	Tiberiu Popescu	Danube International School Vienna	Mr. Popescu's project exemplifies the scientific method. The hypothesis was well-defined and provided evidence of the critical thinking behind the project. He understands every aspect of the issue and is able to clearly describe the project, its results and further implications. His curiosity led him to research not only the positive results, but also the reasons behind the data anomalies. He grasps the physical principles at a maturity well beyond his actual age.
Best of Category S-1 BIOLOGICAL SCIENCE	S1-1	Fetal Hearing: Can Your Baby Hear You?	Lukas Ridikas Charlotte Dutell Laetitia Derrough	Lycee Francais de Vienne	The students displayed excellent teamwork and it was obvious they all contributed to the project. They performed detailed research to determine the best imitation for the amniotic fluid before deciding on water. The report of the project was very impressive and clearly described the project and results. It was very creative as they made the report in a format identical to a real French science magazine. They had very good attention to detail in their assumptions, research and report creation.
Best of Category S-2 CHEMISTRY, PHYSICS AND SPACE SCIENCE	S2-5	How Much Does a Pie Weigh in your Country?	Ernst-Josef Karobath Collin Roger	Vienna International School	Original topic; presented well and enthusiastically; nice display which was well modeled; did contain a reference to Pi.
Best of Category S-3 ENGINEERING AND TECHNOLOGY	S3-2	The Maze Robot	Venezia Georgieva Boris Zyumbyulev Nikita Ovsyannikov	ACS (Sofia)	The team built a robot and programmed it to safely explore unknown areas. Challenges included designing and building the platform, integrating the sensors, programming the robot and building the maze. Over time, improvements were made to its operation-changing from wheels to tracks and integrating an on/off switch. The team worked very well together and had an excellent display - well organized and professionally crafted.

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Best of Category S-4 HEALTH & HUMAN BEHAVIOUR	S4-1	Sun Protection Efficacy	Tsveta Kamenova Mihail Georgiev Marieta Karastoyanova	ACS (Sofia)	The project was very well structured, executed and presented. The students recognized some weaknesses in planning and they adjusted the methodology in order to gather evidence for the hypothesis; Operational work was appropriate for the purpose of the project; They evaluated large amounts of data from several sources; The presentation was clear and well documented and professionally presented by the team; During the development of the project the students discovered new ideas to continue research for another similar project.
BEST OF CATEGPRY S-5 ENVIRONMENTAL SCIENCE	S5-5	What is the most economical and environmentally friendly way of producing biodiesel and using the waste material?	Dawson d'Almeida Shane Squire	Amadeus School	High level of science; very well structured; methodological; excellent team work; team was very passionate.
ADDITIONAL AWARDS					
BEST OVERALL JUNIOR - TEAM PROJECT	J2-2	Can Money Spread Disease?	Matthew Entwistle George Daish	Riverside Prague	Clear understanding and application of scientific process; very innovative and knowledgeable presentation; well designed and documented experiment; interesting experiment with significant results.

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BEST OVERALL JUNIOR - SINGLE PARTICIPANT	J5-3	Proving Snell's Law	Tiberiu Popescu	Danube International School Vienna	Mr. Popescu's project exemplifies the scientific method. The hypothesis was well-defined and provided evidence of the critical thinking behind the project. He understands every aspect of the issue and is able to clearly describe the project, its results and further implications. His curiosity led him to research not only the positive results, but also the reasons behind the data anomalies. He grasps the physical principles at a maturity well beyond his actual age.
BEST OVERALL SENIOR PROJECT	S3-2	The Maze Robot	Venezia Georgieva Boris Zyumbgulev Nikita Ovsyannikov	ACS (Sofia)	The team built a robot and programmed it to safely explore unknown areas. Challenges included designing and building the platform, integrating the sensors, programming the robot and building the maze. Over time, improvements were made to its operation-changing from wheels to tracks and integrating an on/off switch. The team worked very well together and had an excellent display - well organized and professionally crafted.

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BEST SENIOR PROJECT-SINGLE PARTICIPANT	S3-6	Electronc Cigarette Prtotype	Lars Schaaf	Danube International School Vienna	<p>This project focused on the development of a healthy electronic cigarette. The student did comprehensive research on cigarette smoking, existing electronic cigarettes, the development of a prototype delivering nothing more dangerous than water vapour, and extensive marketing for such a product. Mr Schaaf was motivated to select this project due to the fact he suffers from asthma. He wanted to establish a healthy alternative to not only actual cigarettes, but electronic cigarettes that deliver chemicals (nicotine). Mr Schaaf used as a basis for his prototype the principles of a humidifier. The water vapour is created through a metal ultrasonic membrane which creates water mist as the water is instantly vaporized to simulate the actual smoke. Mr Schaaf built an effective model for testing and demonstrating the principles, and described in detail the science behind the device. His display was very effective. He conducted extensive research on smoking, cigarettes, and electronic cigarettes, and communicated this very effectively. Mr Schaaf was passionate about this project. He plans to continue development of the prototype, and even had ideas for how he might work with an existing company to take this concept to full production and work as perhaps an intern to see the project come to a successful outcome.</p>

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WOMEN IN NUCLEAR AWARDS					
JUNIOR AWARD	J1-5	The effect of Detergents on Oil Stains	Paulina Olszewska Nooralhuda Kwrbou	Riverside Prague	The researchers demonstrated an excellent approach to investigate the problem. The experimental work was appropriately conducted and presented. A good follow up of the results was considered. What impressed the judges was the excellent and nicely presented report which contained all elements of an experimental results' report. The two students also exhibited a great team approach during the experiment and during the presentation of results with clear roles and responsibilities.
SENIOR AWARD I	S 3-7	Wind Tunnel Investigations	Melisa Sirotkova	BISB	The student designed, constructed and tested a specialised wind tunnel on internal and external aerodynamics all by herself. She was able to present the results in a nice report and orally when interacting with the interviewers. She presented nicely her work and what she learnt from it. Impressive was that the young lady dug deep into Bernoulli equations and A'Alembert's paradox and physics in general in order to do adaptations to the wind tunnel for better performance.