

2016 VIENNA INTERNATIONAL SCIENCE ENGINEERING FAIR

| AWARD | PROJECT | TITLE | STUDENT(S) | SCHOOL | REASON FOR AWARD |
|---|---------|-----------------------------------|---|-----------------------------------|---|
| BEST OF CATEGORY | | | | | |
| BEST OF CATEGORY J1 – COMPUTER, SPACE AND ENVIRONMENTAL SCIENCES | J1-4 | Oil's Effect On Photosynthesis | Adriana Midkiff Emilie Baker | Riverside School Prague | The judges found that this was a rather complete project, with a clear hypothesis, a well designed and conducted experiment, and well-reasoned results. Especially notable was the adherence to proper laboratory procedure by careful disposal of potentially hazardous materials. |
| BEST OF CATEGORY J2 - JUNIOR HUMAN BEHAVIOUR AND LIFE SCIENCES | J2-6 | Magical Moisturizers | Michelle Stastny Averill Emery | Riverside School Prague | This project was judged Best of Category because the students excelled in their presentation and approach to the topic. The project was unique within the context of the Science Fair and presented a creative and practical application of science. The students were enthusiastic and very knowledgeable of the topic and clearly demonstrated a scientific approach in their testing and methodology. |
| BEST OF CATEGORY J3 - JUNIOR PHYSICAL AND COMPUTER SCIENCES | J3-4 | Moment of Inertia | Tiberiu Popescu | Danube International School | The student designed a well-defined and original project driven predominantly by his scientific curiosity. It was clear that the student understood his project and demonstrated a grasp of physics and mathematics well beyond his grade level. He obviously understood the physical phenomenon behind his experiment thoroughly, had carefully considered and clearly explained the variables that would affect the results. Finally, he made a real world analogy between the eggs he tested and planet earth. |
| BEST OF CATEGORY S1 – SENIOR CHEMISTRY, PHYSICS AND SPACE ENGINEERING | S1-7 | Pendulum Waves | Mohamed Bouaouina, Andreas Reich- Rohrwig, Ivan Frank | Lycee Francais de Vienne | The project was scientifically sound and had all the main elements of good research and development work, that is: 1) Investigation and learning; 2) Computer modelling (2 and 3D); and 3) Engineering and construction of an actual device. All three elements were done on a high level. The students also showed a great deal of enthusiasm and teamwork. |

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| BEST OF CATEGORY S2 - SENIOR ENGINEERING AND TECHNOLOGY | S2-8 | At Arm's Reach | Venezia Georgieva, Nikita Ovsianikov | American College of Sofia | This was a very creative and knowledgeable presentation of a multi-disciplinary and multi-application project. The two students demonstrated excellent and complimentary teamwork. Their efforts produced a mature and convincing prototype. |
| BEST OF CATEGORY S3 – SENIOR ENVIRONMENTAL SCIENCE AND HUMAN BEHAVIOUR | S3-7 | Transport of YAP-1 (Yes-associated protein) from nucleus to cytoplasm and how related to t C2C12 myoblasts | Martin Limback Stokin | International School of Brno | The student had a very clear understanding of the complex topic he presented. He was very thoughtful in the aspects of the topic he chose and had a very clear understanding of cellular mechanisms. The result of this work and his analytical conclusions may have implications for cancer research and cell engineering. |
| ADDITIONAL AWARDS | | | | | |
| BEST OVERALL PROJECT - JUNIOR DIVISION | J2-6 | Magical Moisturizers | Michelle Stastny Averill Emery | Riverside School Prague | |
| BEST OVERALL PROJECT - SENIOR DIVISION | S3-7 | Transport of YAP-1 (Yes-associated protein) from nucleus to cytoplasm and how related to t | Martin Limback Stokin | International School of Brno | |
| BEST ENVIRONMENTAL PROJECT | S1-5 | Biodiesel and McDonalds | Jadwiga Poniatowska | Danube International School | This was a concerted effort in understanding the conversion of waste cooking oil into biodiesel fuel. The student was able to thoroughly characterize the product measurements of physical properties and show a good understanding of the uncontrolled variables. |

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| SPECIAL AWARD FOR MATHEMATICAL APPLICATION-JUNIOR DIVISION | J3-4 | Moment of Inertia | Tiberiu Popescu | Danube International School | Even though he won the best in category J3, the judges felt that he was deserving of an additional award because of his application of mathematical principles in his project. The judges were impressed with the way that he went through several project design iterations and obtained different results than he initially expected, but then confirmed that the results were accurate and convinced himself by calculation that they were correct and reported the results. |
| SPECIAL AWARD FOR MATHEMATICAL APPLICATION-SENIOR DIVISION | S2-1 | Page Rank Matrix and Convergence Rate to Steady-State Vector | Yicheng Hong | American International School | The student demonstrated a deep knowledge and understanding of the application of vector and matrix mathematics. |
| WIN AWARDS | | | | | |
| JUNIOR DIVISION AWARD | J1-6 | From air to water | Viviana Pokluda Catalina Taylor | Riverside School Prague | |
| SENIOR DIVISION AWARD | S2-5 | Car Communication | Melisa Sirotkova | British International School Bratislava | |
| CERTIFICATE OF MERIT | | | | | |
| SPECIAL RECOGNITION OF THE RIVERSIDE INTERNATIONAL SCHOOL OF PRAGUE | | | | | This Certificate of Merit recognizes the continuing interest and emphasis that the Riverside School has placed on the Vienna International Science and Engineering Fair. From the beginning of its participation this school has brought high quality projects and enthusiastic participants. This year they have gained 4 more awards. This is not by accident. The administration and teachers are to be commended for the time and effort they have placed on this programme and their dedication to achieving excellence from the students. |

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| 2015 SCIENCE FAIR CITATIONS FOR REPEAT AWARD WINNERS | | | | | |
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| BEST OVERALL PROJECT - JUNIOR DIVISION | J5-3 | Proving Snell's Law | Tiberiu Popescu | Danube International School | 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 PROJECT - SENIOR DIVISION | S3-2 | The Maze Robot | Venezia Georgieva Boris Zyumbgulev Nikita Ovsyannikov | American College of 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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| WIN-SENIOR AWARD | S 3-7 | Wind Tunnel Investigations | Melisa Sirotkova | British International School Bratislava | 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 dig deep into Bermouilli equations and A'Alembert's paradox and physics in general in order to do adaptations to the wind tunnel for better performance. |