



# IB INTELLECT



## EAGLE SUCCESS

It has been exciting to follow the growing success of our students this year. The IB program is well represented among many of the students who attend Adams, and they are seen in the many accomplishments the students reach and the events they attend. Several accomplishments are noted in this newsletter, as our students continue to excel in all sorts of competitions. Our students continue to volunteer in visiting local schools where they help in reading and speaking Spanish to students in middle schools and establish friendships with others. In January, the Athletic Department hosted an international exhibition game between Adams High School and the Georgetown District High School from Georgetown, Ontario (near Toronto) basketball teams. Who would have known that the opponents came from an IB school? In fact, one of the coaches on the team was the IB Coordinator! Could our team visit Canada and play the Canadians on their court next year? How about developing some academic ties between the two IB schools? These are possibilities that could be considered for years ahead. All these results are evidence of the mission of the IB Program, where we *develop caring young people who help to create a better and more peaceful world through intercultural understanding and respect!* Dr. Mika

## IB STEERING COMMITTEE TO HELP PROGRAM

The 2014 IB Steering Committee has begun to meet and to make plans in helping the IB Program. A group of community members, some of whom have ties to the school while some do not, will all bring new and valuable perspectives to consider as they help in supporting the IB Program. Thanks go to community members Dr. David Moss, Mrs. Nancy Stangas, Maestro Tsung Yeh, Mrs. Felicia Leon-Driscoll, Mrs. Leslie Callahan, Dr. Kelly Jordan, Mr. Brent Sheppard, and Mrs. Jennifer Reed for their willingness to serve.

## THE AMISH ARE COMING!

A group of twelve Amish will visit Adams High School in April. Plans for a visit has been moving forward for months under the coordination of Dr. Mika following an IB class field trip to Shippshewana last fall. The visit has been scheduled for Tuesday, April 15 following Spring Break. Our visitors – possibly the first of its kind to take place in an area high school – will bring several Grade 8 Amish students, teachers, and adults to experience high school life in the city. Our guests will tour the school, have lunch in the cafeteria, and attend several classes in smaller groups, so that teachers and students can all interact and spend some time together and learn from each other. This promises to be a great experience for all. We will provide a warm welcome.



Amish children at the Northside School in Shippshewana, Fall 2013.



**SUPPORT THE IB  
THROUGH THE SOUTH  
BEND EDUCATION  
FOUNDATION**

If anyone is looking for a way to donate a gift to the IB Program, the SB Education Foundation is an excellent way to do so.

With gifts and donations, the IB Program will be able to use funds for the adoption of the latest IB sanctioned textbooks which are required by students and teachers alike. The fund will provide support for IB student needs such as IDOE sponsored IB student conference participation, the printing and publication costs of the *IB Intellect*, and help for teacher and administrative training and workshop needs.

We look forward to much success and growth of the IB Program through the support of the South Bend Education Foundation. Donations can be sent to the Foundation by check or by Paypal. The Foundation is a tax-exempt, non profit 501(c)(3) organization. Gifts are tax deductible for income and estate tax purposes to the extent allowed by law.

For more information and payment options, visit <http://www.edfo.org/>



**IB STUDENTS RECEIVE SCIENCE RESEARCH FUNDING**

Following a fifty-year pattern of success, eight JAHS juniors recently learned that their research proposals had been fully funded by the American Association for the Advancement of Science. This national organization funds professional scientists' work and provides support for a limited number of high school investigations. Most of the students' investigations continue last year's progress in the Adams Science Research Program. In addition, the students' work will satisfy the Extended Essay requirement for the IB program. Currently, twenty-five other students are working on their Extended Essays through the Science Research Program.

Students who were funded in their topic titles include: Chloe Sherry, *Effect of Light-Shock Conditioning on Neurotransmitter Concentrations in Planarian Flatworms*; Madeline Doctor, *Improving Electrode Kinetics and Operational Lifetime of a Prototype Membrane-less Glucose-Oxygen Physiological Fuel Cell*; Stephen Bauer, *Using Ultra-Capacitors to Increase the Efficiency and Power Output of the Direct Methanol Fuel Cell*; Caleb Geissler, *A Study of the Effect of Utilizing Heat Generated from Computer Processing, Supplemental Phosphate, and Supplemental Nitrate to Enhance Hydrogen Gas Production in Heterocystous, Filamentous Cyanobacteria Anabaena cylindrical*; Adam Staszewski, *Identifying Pollen Cells Using Computer Analysis: An Aid for Allergists, Immunologists, and Other Health Care Specialists*; Elinor Thomas, *Study on the Properties of Electromagnetic Fields and their Possible Effects on Biological Materials and the Light-Shock Memory of Planarian Flatworms*; Claudia Taccheri, *The Effects of Ingestion of Coenzyme Q<sub>10</sub> on Cognitive Process as administered with Cholesterol to Mimic Alzheimer's Disease*; Nicole Gorman, *Evaluating Possible Effects of Polystyrene Spheres on the Development of Brine Shrimp*



From left to right: Claudia Taccheri, Chloe Sherry, Nicole Gorman, Madeline Doctor, Elinor Thomas, Caleb Geissler, Adam Staszewski, and Stephen Bauer.

**UPCOMING EVENTS:**

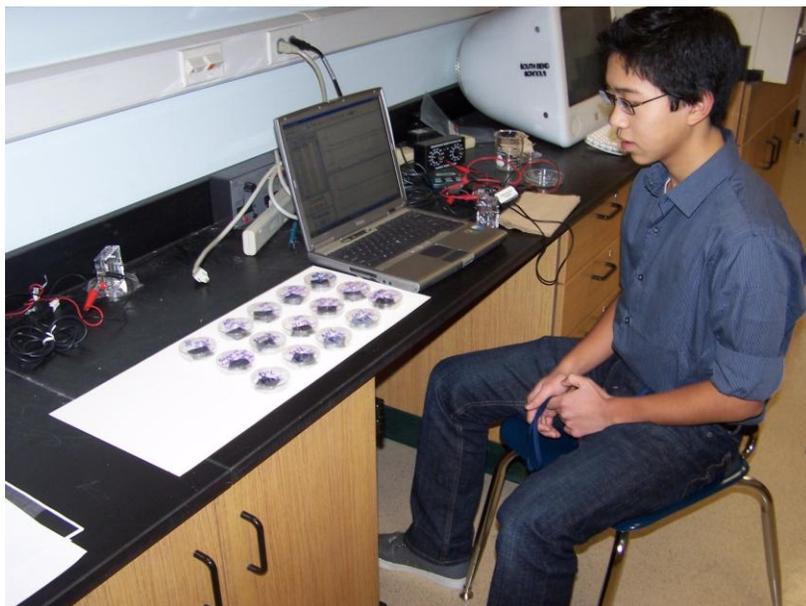
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| Mar.31-Apr.13 | IB Art Exhibition at IUSB                              |
| Mar. 26       | Promotional China 2015 Travel meeting in LGI at 6 pm.  |
| Apr.1-6       | 31 Spanish students travel to Costa Rica               |
|               | Magnet Sophomore travel to Montreal – <i>CANCELLED</i> |
| Apr.15        | Amish visitors to Adams High School                    |
| <b>Apr.21</b> | <b>Deadline for next issue</b>                         |
| May 5-23      | IB testing at IUSB                                     |

## JOHN ADAMS IB STUDENT SELECTED BY INTEL AND SIEMENS CORPORATIONS AS A TOP SCIENTIST

John Adams High School was recently informed that Raymond Han, an IB Diploma candidate, had been selected as a semifinalist by both the Siemens Corporation and by the Intel Corporation in their nationwide science competitions. Earlier Raymond was selected as the top high school science researcher in Indiana and presented the results of his fuel cell investigation at the National Convention of the American Association for the Advancement of Science (AAAS) held in February 2013 in Boston, MA.

His investigation entitled *The Effects of Hydrophobicity and Microporous Layers in the Membrane Electrode Assembly of a Direct Methanol Fuel Cell to Enable Efficient Operation Using High Concentration Fuel* has continued over a three year period of time and constitutes the topic for his IB Extended Essay. Fuel cells are considered, by many experts, as the primary alternative energy source to replace our reliance on petroleum.

Most of his early exploratory work was focused on improving the fuel cell efficiency by modifying the flow of electrons through the electrodes. Raymond's investigations also centered on these electrodes which he modified with various catalysts plated on different metals as well as carbon nanotube fiber cloth. Congratulations Raymond!



Picture includes Raymond evaluating the efficiency of the many electrodes which he retrofitted during his junior year.

## MORE ACCOMPLISHMENTS

**Adams Choir members** – with several IB students, earned an impressive 42 Gold medals for their performances at the Choral Solo Ensemble Festival at Clay High School on Saturday, February 8<sup>th</sup>. Several members also went on to perform at the State Contest in Indianapolis on February 22<sup>nd</sup>!

**Adams Orchestra members** earned 27 gold and 2 silvers at the ISSMA Regionals!

**Mock Trial – “Team the Click”** – were winners of the Hammond Mock Trial Regional competition in early February, and at the end of the month several teams competed in the state championships where we set a state record by placing 6 teams in the top 10. Despite not winning the championship for the first time in 13 years Adams showed we are the BEST PROGRAM in the state. Thanks to Mr. Weaver and all the students for their efforts!



Anton Gillespie took the first place award and the right to play with the symphony. (Elkhart Truth Photo)

## JOHN ADAMS SENIOR WINS STUDENT CONCERTO COMPETITION

By Nick Wesman, Elkhart Truth

John Adams IB High School senior Anton Gillespie won the Elkhart County Symphony's 28th annual Student Concerto Competition on Sunday, Jan. 12. Gillespie was selected by a three-judge panel that included pianist Geoffrey Duce, retired St. Joseph Public Schools teacher Steven Reed and Thomas Stirling, conductor for the Symphony of the Lakes in Warsaw. The contest was held at First Presbyterian Church in Elkhart on Sunday afternoon. Eight local students performed in the competition for a chance to play with the symphony at its performance Feb. 15. For winning the competition, Gillespie received \$200 and was the featured soloist at the Elkhart County Symphony's Feb. 15 performance of "The Power of Love" held at the Lerner Theatre in downtown Elkhart.

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*The IB Intellect* is a Newsletter of the John Adams High School International Baccalaureate Program  
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## 2015 CHINA TRIP UPDATE

A group of twenty people attended the first promotional meeting on Feb.12 for the EF organized travel opportunity China in 2015. The audience was presented all the details on our travel itinerary, costs, and insights for foreign travel by EF Representative Andrea Wolfe. Questions from the audience and parent interaction was great to see, as well as the experiences of parents who have visited China themselves. We plan to hold several more meetings this Spring to promote our trip to China, which will visit Beijing and the Great Wall of China on June 23-30, 2015. If you are interested, please check out the website at <http://www.eftours.com/1446177XW> and come out to our next meeting on Wednesday, March 26. Four students have already signed up for the trip, and the earlier you enroll (currently total cost is \$3,085) the cheaper the costs will be.



### NATIONAL HONOR SOCIETY REACHES OUT!

National Honor Society members did an amazing job with a holiday party for the South Bend Boys & Girls club kids. NHS members were paired up with a Boys & Girls Club member and they became pen pals. They wrote each other most of the semester and they finally met on December 19 to spend some time together. Our students provided food, drinks, desserts and a gift for their pen-pal. The students made decorations and set up crafts. It was wonderful to see the difference each student made. Many thanks to Ms. Stanton for all the hard work she and the students put forth on this special day.



### MAJOR SUCCESS FOR THE JOHN ADAMS SCIENCE OLYMPICS PROGRAM

John Adams Science Olympiad Team RED won 1<sup>st</sup> place at the 2014 Goshen Regional Competition held on February 8<sup>th</sup>. The team will move on to Indianapolis for the state championships in March, 20104. Team members are made up of IB students including Matt Neumann, Jarek Allin, Galen Brown, Seila Ibrulj, Heidi Kwok, Jasmine Feder, Cindy Dang, Raymond Han, Leah Blickensderfer, Ben Ibrulj, Emmarie Ballard, Aubren Kubicki, Eric Blickensderfer, Luigi Fuerte, and Erik Kwok. Congratulations to everyone and many thanks to the coaches – Daniel Walsh and Sally Troxel.