ACS NEW YORK SECTION CELEBRATES IYPT2019 WITH A GIANT 3D PERIODIC TABLE DISPLAY AT NEW YORK HALL OF SCIENCE

Article Submitted by Dr. Ping Furlan, the IYPT Committee Chair of the New York Section of the American Chemical Society.

On Friday, October 18, 2019, the American Chemical Society New York Section (NYACS) unveiled a giant 3D Periodic Table at New York Hall of Science (NYSCI) – the Great Hall, as its members commemorated the 150th Birthday of Mendeleev’s Periodic Table and the International Year of the Periodic Table (IYPT2019).

The Table, standing tall in all its glory, 12ftx12ftx11ft in size, reveals the hidden pattern of the universe and makes it clear for all to see how elements relate and why they do what they do. Thousands of NYACS volunteers representing 56 organizations, ranging from research labs, universities, colleges, high schools, chemical companies and business centers, participated in and contributed to the designs of the 118 elements and construction of the Table.

Through their high quality, well thought-out, aesthetic, and highly diversified original artworks, contributors tell rich and fascinating stories of their elements and how their elements’ discoveries and the discovery of the periodicity helped build the modern world.

By showing their own Si and SiGe chips, the IBM scientists proudly celebrated the elements silicon (Si) and germanium (Ge), two closely related family members in Group 4A, and how these elements enabled IBM, via innovation and the use of the Periodic Law, to lead the computer revolution that has forever changed the way we live.

The Mapham High School honored the element Lithium (Li) with an exquisite painting of Arfvedson, the chemist who first discovered the element in its compound form in 1817. Looking at the Li symbol with that “Mona Lisa” smile, Arfvedson is surrounded by the many uses of lithium, ranging from drugs to batteries. The smile on his face even seemed more glorious after the recent announcement that light weight, rechargeable and high power lithium ion batteries have won their creators the 2019 Nobel Prize in Chemistry.

The giant 3D Periodic Table, designed and constructed by thousands of NYACS volunteers, representing 56 organizations ranging from research labs, universities, colleges, high schools, chemical companies and business centers, was on display till Friday, October 25, 2019 at New York Hall of Science – the Great Hall.

(Photo courtesy of Dr. Mike Melcer)
The volunteers of the NYACS Unveiling of the PT event, October 18, 2019, New York Hall of Science. From left to right: David Ingels-Thompson, Mayte Castro-Cabrera, Andrew Paine and Clarence Cheng of the United States Merchant Marine Academy.

(Shaf courtesy of Captain Tony Nigro)

The element sodium (Na), claimed by their superintendent, Admiral Jack Buono, was well celebrated at the United States Merchant Marine Academy. Using information research, one-page assay, one-minute presentation, and finally the graphical representations, students learned about and shared the many modern and maritime uses of sodium. Many felt, that after the IYPT, perhaps element sodium (Na) should be “properly” renamed as “nauticalium”. Through the giant Table display, members of NYACS pay their ultimate tribute to all that the Periodic Table symbolizes: scientific discovery, innovation, human dedication and collective endeavors, and how these legacies have personally impacted who they are and what they do.

Even held on a working day, the unveiling event was well attended, especially with a large number of area high school students. The Hall was crowded with an attentive and enlightened audience who helped bring this magnificent Exhibit to public and greatly appreciated an opportunity to meet and converse with the IBM eminent scientists and technology leaders including Dr. James Wynne, the LASIK inventor, Dr. Lubomyr (Luby) Romankiw, whose magnetic thin-film storage heads enabled a giant step in increased density of storage that led to the era of personal computers, and Ms. Linda Sanford, who headed up IBM globe industries in 1990s that generated 70% IBM’s revenue.

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The giant 3D Periodic Table, designed and constructed by thousands of NYACS volunteers, representing 56 organizations ranging from research labs, universities, colleges, high schools, chemical companies and business centers, and will be on display at the 58th Eastern Analytical Symposium and Exhibition, November 18-20, 2019, Princeton, New Jersey.

(Shaf courtesy of Alison Hyslop, Former Chair of NYACS)
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From left to right: Mr. Richard Goodman (James Bryant Conant Award Recipient), Dr. Ping Furlan (NYACS IYPT Committee Chair), Dr. James Wynne (LASIK Inventor), Mr. Joseph Wiener (NYACS IYPT Committee Co-chair), Dr. Lubomyr Romankiw (Magnetic thin-film storage inventor), Dr. Justyna Widera-Kalinowska (NYACS 2019 Chair), and Dr. Neil Jespersen (NYACS Councilor).

(Photo courtesy of Alison Hyslop, Former Chair of NYACS)

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(Photo courtesy of Alison Hyslop, Former Chair of NYACS)
## Congrats to Our Element Design Winners

<table>
<thead>
<tr>
<th>Award</th>
<th>Winner</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best colored hand-drawn original artwork</td>
<td>Ms. Josephine Perlegreco, Mepham High School</td>
<td>Lithium (Li)</td>
</tr>
<tr>
<td>Best non-colored hand-drawn original artwork</td>
<td>Mr. Kevin Trenchica, Lyndebrook High School</td>
<td>Antimony (Sb)</td>
</tr>
<tr>
<td>Best implementation of a school logo in a design</td>
<td>Stephanie Dulovic &amp; Kristen Dulovic, Adelphi University</td>
<td>Gold (Au)</td>
</tr>
<tr>
<td>Most clever design</td>
<td>Mr. Brandon McMurtry, Columbia University</td>
<td>Flerovium (Fl)</td>
</tr>
<tr>
<td>Best design using an original photograph</td>
<td>Kristyn Gibney &amp; Dalton Gibney, Brooklyn College, CUNY</td>
<td>Carbon (C)</td>
</tr>
<tr>
<td>Best pop culture reference</td>
<td>Amy Trang Nguyen, EF Academy New York</td>
<td>Krypton (Kr)</td>
</tr>
<tr>
<td>Most informative submission</td>
<td>Vijay Kumar Siripuran &amp; Marc Fajolet, The Rockefeller University</td>
<td>Sulfur (S)</td>
</tr>
<tr>
<td>Most humorous submission</td>
<td>Student Chapter of the ACS, Iowa College</td>
<td>Iron (Fe)</td>
</tr>
<tr>
<td>Design with the best word-play</td>
<td>Giavanna Atmaca, EF Academy New York</td>
<td>Carium (Ba)</td>
</tr>
<tr>
<td>Most imaginative design</td>
<td>G. Patel, M. Hashemi, S.H. Khoja, Jose Merti STEM Academy</td>
<td>Cobalt (Co)</td>
</tr>
<tr>
<td>Best use of mythological reference</td>
<td>Jennifer Lin &amp; Eileen McCaffrey, Pearl River High School</td>
<td>Promethium (Pm)</td>
</tr>
<tr>
<td>Group that impacted the most people with its element</td>
<td>Science &amp; Innovation Club, U.S. Merchant Marine Academy</td>
<td>Sodium (Na)</td>
</tr>
<tr>
<td>Coordinator that inspired the most original &amp; impressive designs</td>
<td>Ms. Young Soo Michelle Moon, EF Academy New York</td>
<td></td>
</tr>
<tr>
<td>Most elements reserved</td>
<td>Dr. Fernando Comodari, EF Academy New York</td>
<td></td>
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</tbody>
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The giant 3D Periodic Table display will be on display at the 58th Eastern Analytical Symposium and Exhibition, November 18-20, 2019, in Princeton, New Jersey.
The giant 3D Periodic Table display will be on display at the 58th Eastern Analytical Symposium and Exhibition, November 18-20, 2019, in Princeton, New Jersey.
Photos courtesy of Alison Hyslop, Cindy Robson, Mike Melcer, Brian Gibney, Vijay Kumar Siripuram, Fernando Commodari and Stephani & Kristen Dulovic.

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The giant 3D Periodic Table display will be on display at the 58th Eastern Analytical Symposium and Exhibition, November 18-20, 2019, in Princeton, New Jersey.
THANK YOU!!!

We once again extend our heartfelt thanks to our

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New York ACS International Year of the Periodic Table Committee

Ping Furlan, Paul Sideris, Joseph Wiener, Erin Thelen

Justyna Widera-Kalinowska (NYACS Chair), Paris Svoronos

Neil Jespersen, Brian Gibney, Frank Romano