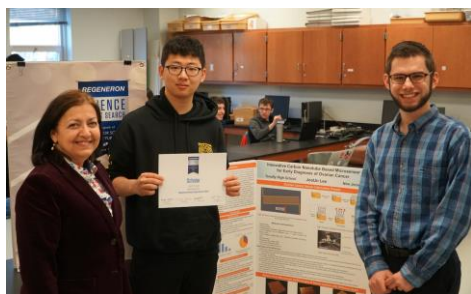




**TENAFLY HIGH SCHOOL'S**  
**CURRICULUM AND INSTRUCTION**  
**SCIENCE – PERFORMING ARTS – TECHNOLOGY**  
**LALOR LIBRARY MEDIA CENTER**  
**WINTER 2020 - [WWW.LIBRARYMEDIA.NET](http://WWW.LIBRARYMEDIA.NET) - [@TENAFLY77](https://TWITTER.COM/TENAFLY77)**

**Joo Un Lee (2020)**  
**Finishes Top 300 in**  
**Regeneron Science**  
**Talent Search**

The Regeneron Talent Search was founded and produced by Society for Science & the Public and is the nation's oldest and most prestigious science and math competition for high school seniors. It recognizes and empowers



promising young scientists in the U.S. who are creating the ideas and solutions that will address our world's most urgent challenges. Tenafly High School is thrilled to announce the selection of senior Joo Un Lee as top 300 scholar by the Regeneron Science Talent Search. He will be awarded \$2000 with the same amount contributed to Tenafly High School's science research program. Joo Un Lee, under the instruction of Ms. Helen Coyle, was selected for his research project entitled "Gold Nanoparticle and Carbon Nanotube-Based Interdigitated Electrode Biosensors for Cancer Antigen Detection and Sensitivity Studies". His research project was completed as part of our Tenafly High School's Science Research program at New Jersey Institute of Technology. The Regeneron Science Talent Search scholars were selected from 1,993 applications received from 659 high schools across 49 states. Scholars were chosen based on their exceptional research skills, commitment to academics, innovative thinking and promise as scientists and hail from 192

American and international high schools in 39 states and Guam.

**Science Olympiad**  
**Results**

On January 7, 2020 Tenafly High School science students took part in the New Jersey Science Olympiad - Union County College Regional in Cranford, NJ. Overall the Tenafly team placed 9th out of 27 high schools at this very competitive event. Tenafly students:



1st place Chem Club - Chaeyoung Lee (10th) & Subin (Emily) Kwen (12th)  
 2nd place Ping Pong Parachute - Andy Zhao (9th) & Subin (Emily) Kwen (12th)  
 4th place Boomilever - Adriana Hong (10th) and Ethan Park (12th). Congratulations to the entire Tenafly team, instructors Anna Rubenchik and Grace Woleslagle for an outstanding accomplishment!

**Foucault Pendulum in**  
**Curriculum**

Jean Bernard Léon Foucault was a French physicist born in 1819. Among many other important discoveries, he became known for his demonstration of the Foucault Pendulum, introduced in 1851. Foucault's pendulum was the first physical demonstration that proved the rotation of the earth. There are many such pendulums in existence today – they are popular displays in science museums and universities and even the United Nations in New York City. So Why not Tenafly High School? This is where Helen Coyle's AP Physics class enters. The project fit right into her curriculum as they studied oscillation.

Also, the construction of the pendulum gave her students added opportunities such as cutting aircraft cable, crimping



fasteners, mixing mortar and pouring it into a round glass lampshade to fabricate a bob. Finally, it was attached to the I-beam 30 feet above and ready for its first swing by student David



Kapelyan. Newton's First Law states that an object will remain at rest or in uniform motion in a straight line unless acted upon by an external force. The pendulum, in fact, is being acted upon, by gravity – yet still, it swings freely, and there is a simple order to its swing. Newton's law provides order, as the pendulum remains in its plane, and surprisingly, the pull of gravity provides freedom allowing the pendulum to oscillate back and forth as the Earth turns underneath.

**Science Research**  
**Promotional Event**

On January 22, during lunch hour, interested students attended a session to find out more about Tenafly High School's premier Science Research class and program. Current Science Research students showcased their work and answered questions. The Library Media

Center was honored to host this very well attended event!

## Helen Coyle and Bob Kennedy Selected Clinical Faculty Member

Ms. Helen Coyle and Bob Kennedy applied for and were appointed by the Dean of the College of Education and Human Services at Montclair State University as Clinical Faculty members. They will be eligible to serve as cooperating teacher, on-site education mentor, co-facilitators of mini-course, co-teacher of student teaching seminars, and adjunct faculty for other courses at the University. They also will be eligible to apply for MSU Grant Opportunities. Congratulations to Ms. Coyle and Dr. Kennedy!

## Excellent Instructional Space Made Even Better

William Breakfield assisted by Joe Latiano of buildings and grounds completed the installation of a surround sound speakers donated by NBC in the PITT. Bill and Joe installed multiple speakers on the soffit – providing a rich and deeply immersive experience for students screening movies, listening to music, and videoconferencing. Many thanks to Frank Primiami and B&G dept! for completing this work.



## Current Events in the Library TV Studio

On a 104" television, donated by NBC, students had the opportunity to watch historic US Senate impeachment trial opening arguments. Students were seated comfortably on furniture donated by the warehouse NBC shares in Secaucus. Students with IDT and



classes welcome to experience – in the library starting at 1:00 p.m.

## Two Nights of Great Performances!

"Music gives a soul to the universe, wings to the mind, flight to the imagination and life to everything."  
- Plato

Tenafly High School is blessed to have the best performing arts programs Anywhere! Under the leadership of Mr.

Tenafly High School Performing Arts  
presents

An evening of music for



James Millar and Mr. Michael Jacobetz, the public had two evenings (Jan. 15<sup>th</sup> and 16<sup>th</sup>) to become immersed in aesthetics of music. The concerts were carried live over Ch. 77 and streamed and viewed on demand at [www.librarymedia.net](http://www.librarymedia.net).

## Let's Knit

Ms. Aparna Subramaniam (science) conducts lunchtime knitting in her classroom. Most recently, participating

students knitted 27 chemo baby hats that were donated to Siena House for Hackensack University Medical Center.

Additional knitting opportunities with parent knitters Ms. Phyllis Lin and Ms. Penny Cheng take place in the library once a month. Students can learn to knit and/or work on a community project.



## Upcoming Professional Development Opportunities in NYC

**CREATIVE LEADERSHIP: NEW MANAGEMENT PARADIGMS IN A DIGITAL WORLD**  
(no charge – just sign up)

February 24, 2020  
6:00 – 9:00 PM

<https://www.eventbrite.com/e/creative-leadership-new-management-paradigms-in-a-digital-world-tickets-93167451355>

**DEMOCRACY AND EDUCATION IN THE AGE OF RENASCENT NATIONALISM**

(no charge – just sign up)  
March 10, 2020, 7:00 - 9:00 PM

<https://www.dwih-newyork.org/en/event/democracy-and-education/>