

SCIENTECH CLUB NEWSLETTER

SCIENTECH

2020

Vol. 101

No. 10

March 9

The 102nd year as a forum for the exchange of information in scientific and technical fields

A club for people who never stop learning

Meeting at 12 noon on Mondays, Northside Events and Social Club

2100 E. 71st St., Indianapolis, IN

In an emergency call 317-253-3471

Admission & lunch \$12 @ 11:15 am, admission & coffee or tea \$2

Reservations not needed

<http://www.scientechclub.org>

<http://www.scientechclub.org/foundation/AngusFoundation.asp>

Jim Willson President

Dick Carter, VP

Bob Yee, Secretary

Charlie Shoup, Treasurer

March

10 Board of Directors Meeting

16 **Program:** Opportunities to Learn About Business

Speaker: Jim Amidon, OLAB Director, Chief of Staff, Director of Strategic Communications, Secretary, Wabash College

23 **Program:** Indianapolis Bicentennial Celebration

Speaker: Jeff Bennett, Indianapolis Deputy Mayor of Community Development

30 **Program:** Indiana Department of Education STEM Initiatives

Speaker: Christy Hilton, PhD, STEM Specialist, Indiana Department of Education

April

6 **Program:** Detecting Lies – What Works, What Doesn't Work, and What May Produce a False Confession

Speaker: Greg Wright, President, Central Indiana Chapter, Association of Certified Fraud Examiners, Scientech Club member

13 **Program:** My Wild Grace Chase

Speaker: Douglas Hofstadter --- Professor of Cognitive Science and Comparative literature, Indiana University, Bloomington

More at: <http://www.scientechclub.org/programs/calendarpagecss.asp>

Tour to Indiana Medical History Museum

- Medical History Museum at 3045 W Vermont Street
- Monday June 8 at 1:00 pm.
- Car pool from Sciencetech 11:00 am.
- Lunch at Workingman's Friend, 234 N Belmont at 11:30. (5 minutes from museum)
- Tour lasts 1-1.5 hours
- Tour Fee is \$9
- Signup sheets at Monday meetings.
- Call Peggy Sabens at 317-903-8839 or e-mail Russell Judd at rjudd613@gmail.com

Today's Program

Program: How Preschool Curriculum Standards Relate to Indiana High School Standards: The Foundation of Learning Science, Technology, Engineering and Math

Speakers: Ellie Schmink, District Vice President, Jordan YMCA, and Lauren Ausdenmoor, Youth and Family Life Director, Jordan YMCA

Introduced by: Jeff Rasley

Attendance: 89

Guests: John Wertz, Robert and Nancy Owen, Greg McCauley

Scribe: Hank Wolfla

Editor: Ed Nitka

Ellie Schmink District VP of the Jordan YMCA and her staff member Lauren Awsolemoore gave a presentation about the YMCA preschool activities as they relate to STEM education. This program is supported in part by the Sciencetech Foundation. Approximately 70 students from the ages of 2 to 5 years of age are divided into 3 classes. The parents are charged for this service depending on the length of time the student spends in the program each week. The cost ranges from \$375 per month for a 5 day week, and down to just over \$200 for a 2 day period. 50% of the students receive some sort of financial assistance.

The first series of STEM education includes components of science: Components of Science, Physical Science, Life Science, and Earth and the Environment.

In the components of science, the preschool foundation includes: 1. Demonstrate awareness of the physical properties of objects, 2. Demonstrate awareness of life, 3. Recognize the characteristics of Earth and sky. These are accomplished with such activities as understanding the formation of clouds, the use of a magnifying glass to study small plant and insect life, seeing the action of baking soda and vinegar.

The second series of technology includes: 1. Awareness of technology, 2. Basic operations and concepts, 3. Tools and equipment, 4. People and technology. The preschool foundation includes: 1. Demonstrate development of fine and gross motor coordination, 2. Demonstrate scientific curiosity, 3. Demonstrate ability to explore objects in the physical world, the demonstrative awareness of the physical properties of objects, and demonstrate the awareness of life. These were accomplished by using toy saws to cut wood, magnifying glasses to look at different foods, watering plants with eye droppers, making apple sauce from whole apples.

The third section, components of engineering includes: 1. Exploration of how simple tools work, 2. Use of blocks and Lego's for building and creating, 3. Experimentation with size, weight, volume, and balance. The foundation of these include: 1. Demonstrate engineering design and skills, 2. Exhibit ability to identify, describe, analyze, compare, and create shapes, 3. Understand measurement through description and comparison. These were accomplished with magnetic toys, Lego's, various other building toys, a sensory table, and gears.

The last section, components of math include: 1. Number and operations, 2. Geometry and spatial sense, 3. Measurement, 4. Patterns (algebra), 5. Data analysis. The foundation for math includes: 1. Demonstrate strong sense of counting, 2. Demonstrate awareness of patterning, 3. Understanding measurements through description and comparison. These were accomplished by counting items, counting games, tracing shapes on a light board, using blocks to measure size.

The speakers used many pictures of the students doing the activities described above; that made their presentation easy to understand the students' activities. The Sciencetech Club Foundation has funded another quality STEM education resource in our community.



Lauren Ausdenmoor and Ellie Schmink



Photo of \$10,000 SF grant check delivery today to Ellie & Lauren for the Jordan Y Preschool STEM program

Jeff Rasley also delivers a \$10,000 grant check from SF to Kurt Williams for Link Observatory's Space Science programs.



Learn more about food waste - while having dinner

The **Broad Ripple Farmers Market** is pleased to present a screening of the impactful movie **Wasted!** on Sunday, March 22 at 5:30 pm at Liter House. Tickets are \$15 and include a tasty, veggie-friendly buffet. Beverages will be available for purchase from Liter House. Get your tickets electronically at **Eventbrite** or at the Market on Saturday. Learn more at:

<https://mailchi.mp/fc85b5006042/summer-market-opening-day-this-saturday-may-4th-4341883?>