February 12, 2020 Meeting

The February 12, 2020 Waterloo Technical Society (WTS) meeting was called to order by President Stevenson at 7:20 pm. President Stevenson welcomed visitors and noted that this was the fifth meeting of the 106th year of the Society.

A total of 32 members and guests attended.

Treasurer's Report. Ken Friend reported a beginning balance of $1,337.47. With $60.00 income from paid memberships and expenses of $300.00 donation to FIRST Robot Regional Competition, $400.00 donation to Cedar Falls High School STARS Rocket Club and $20 for the January speaker 's meal leaves a new balance of $677.47. Treasurer Friend's report stated a total of 8 honorary and 39 paid members yielding a membership roster of 47 members.

Introduction of Officers. Officers for the 2019-2020 year (year 106) were introduced:

President:	Jim Stevenson
Co-Vice Presidents:	Jerry Mohling and Steve Crouse
Treasurer:	Kenneth Friend and Paul Anderson
Dinner Reservations:	Derek Eagles and Steve Lang
Secretary:	James Stevenson
Publicity/Recognition:	Vacant
Auditing:	Bill Mitchell and Jim Garrett
Nominating Committee:	Ralph Marrero
Web Site:	Tim Schoenfelder

Old Business. The topics for this year were reviewed. The dates, speaker and topics for the 106th WTS are:

September 11, 2019, Communication Technology, Hillary Menken, Talk to Me Technologies
October 9, 2019. Photojournalism Drones. Daniel Hampe, KWWL.
November 13, 2019. Infrared Thermopile Sensor Arrays. Dr. Jeffrey Nie, UNI.
January 8, 2020. Education Technology, Schindler Tour. Dr. Leigh Zeitz, UNI.
February 12, 2020. University Avenue Reconstruction. Michelle Sweeney, AECOM.
March 11, 2020. Digital Marketing and Web Development. Shane Klein, SpinUTech.
April 8, 2020. Electric Bicycles. Brent Johnson, BikeTech.
May 13, 2020. Hearing Devices. John Sperry, Wolfe Clinic.

President Stevenson read a letter of acknowledgement from Cedar Falls High School for the STARS donation of $400. Bruce Newendorp sent a letter of appreciation for the $300 donation to the FIRST Robot Regional competition. Also, a letter of appreciation and thanks for Derek Eagles and Ralph Marrero servicing as judges at the Waverly Robotics Super Qualifier Competition.

New Business. There was no new business to discuss.

Guest Speaker. **Michelle Sweeney,** PE, PTOE, is a Project Manager and Traffic Engineer for AECOM in the Waterloo, Iowa, office. AECOM is a global engineering firm and ranked by Engineering News Record as the No. 1 transportation engineering firm in the US. Michelle has been with AECOM since 2017 and has designed and managed the University Avenue Reconstruction Project for the City of Waterloo, Iowa, is project engineer for

the new Cedar Falls High School Project, and was lead design engineer for the Iowa 58 & Viking Road Interchange Project for the Iowa DOT. She has also been the construction manager for several Iowa DOT projects. Prior to coming to AECOM, Michelle worked as a Project Manager for the City of Cedar Falls, Iowa, for 10 years and managed the design and construction of several large projects, including the University Avenue Phase 1 Reconstruction, Mayors Pedestrian Bridge and Greenhill Pedestrian Box Culvert, Prairie Parkway Construction, and Ridgeway Avenue Reconstruction. In her free time, Michelle enjoys volunteering in the communities she lives and works in and spending time with her family, husband, Mike, and three kids, Cece, Charlie and Carson.

Waterloo's University Avenue Reconstruction. The presentation covered the City of Waterloo's University Avenue Reconstruction Project and future enhancements. The University Avenue Reconstruction Project is estimated at $35 million and is scheduled to be completed in 2021.

AECOM performed a preliminary study of the existing 6-lane roadway and determined current and projected traffic volumes could be handled on an improved 4-lane street. With the reduction in lanes, the City decided to reconstruct University as a "Complete Street" with a 10-foot multi-use path and 5-foot sidewalks, landscaping, bus/transit accommodations, and connections to other existing trails.

This project includes eight signalized intersections, storm sewer, sanitary sewer, water main, two bridge repairs, bridge demolition, installation of a pedestrian box culvert, and enhancements. The project includes private utility coordination, with electric, gas and communication lines located alongside the roadway.

The project is broken into three phases.



Figure 1. Phase 1 Middle Section, Ansborough to Greenhill.



Figure 2. Phase 2. Greenhill to Midway.



Figure 3. Phase 3. Ansborough to Sargeant Road with round about at Fletcher Ave.

Phase 1 – Estimated Completion May 2020

Landscaping, Sidewalks, and Colored Concrete

Phase 2 – Estimated Completion Nov. 2020

North half of University from Midway to Access B

University Avenue from Access B to Greenhill Road

Phase 3 – Estimated Start April 2020 and Completion Nov. 2021



Figure 4. Westward view showing median reconstruction and new lanes. Also, at left center the bike trails are shown south of University Avenue.



Figure 5. Bike trail (left) and median enhancement showing plantings and wave décor.



Figure 6. Waterloo city logo that will be placed along University Avenue. The left is in color, the right is the same in black and white.



Figure 7. Fletcher Avenue round about concept. Plantings are low enough for visibility but tall enough to prevent cars from crossing through the center without using the circular roadway.

Meeting adjourned at 8:20 pm.

Next Meeting. The next meeting will be March 11, 2020. Shane Klein will address the topic of Digital Marketing and Web Design.

Respectfully submitted,

James R. Stevenson, President and Secretary