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## **ASCE February Meeting Minutes**

Speaker: Dirk Hudson, P.E. – Regional Engineer

Topic: Water Under Your Road

Date: Wednesday, February 7th, 2024

Location: Wichita Advanced Learning Library

711 W 2nd St N

Wichita, KS 67203

President Caleb Coltrane called the meeting to order at 12:00 pm and opened with announcements.

**Announcements**

* Layla McDaniel has moved back to North Carolina; current board members will be picking up her roles and Caleb Coltrane now takes on role of President.
* Next meeting will be March 6th, 2024 in the Advanced Learning Library. Meeting will be about Bike Walk Wichita, presented by Kim Neufeld.
* STEM Grant winner was Brooke Jackson, from St. Peter Catholic School. Other winners were awarded STEM kits and grants. Thanks to the sponsors of the Steak Fry, about $1,300 was given for STEM Grants and Kits to teachers.
* Kansas Section Dinner, Hosted by University of Kansas Student Chapter, will be held on March 26, 2024. Event will include networking, section and region updates, dinner, keynote address, and dessert. Registration will be $30.
* Upcoming events; Trivia night in March or April, Adopt-a-Highway will be April 18, Officer Elections on May 1st, and the Steak Fry will be June 13th.
* Hands on Engineering, held on the first Saturday of each month during the school year. Looking for a engineering consultant to fill the May event, all other months have been covered.

President Caleb Coltrane introduced speaker, Dirk Hudson, P. E., Engineered Products Manager and Civil Engineer at ADS. Dirk begins his presentation

**Presentation Notes**

Dirk began with an ice breaker, asking the audience how the urban water cycle effects our daily lives. After the ice breaker, the urban water cycle was explained. Beginning with a water supply, where waters enter a water treatment plan and through a process becomes clean water ready for daily use. That water becomes wastewater and go into a wastewater treatment plant and after the water is treated goes back into the water supply. Dirk emphasizes the source of storm water that enters the water supply through storm sewer, which is what the presentation will be focusing on.

A quick explanation of the cycle of a raindrop is given, with the rain being captured into the storm sewer by an inlet structure. The rain is then conveyed through a series of pipes and into a storage basin. The rain is stored until it will be treated and brought back into the water supply. Dirk brings up that there is a problem in the cycle.

The problem being potholes and sinkholes being caused water washing out what’s underneath our roads and into pipes through poor joints. A video is played showing how this process occurs. Depending on the backfill these washouts can still happen. This leads into the solution to this problem.

A type of collar that would seal joints where water is entering from outside the storm inlets. This would be in the form of an Inline Bell connecting HP Pipes. These connections offer good joint integrity, fewer joints needed, and faster installation.

An example of this pipe being use was on the US-166 Project in Cherokee County. Originally a proposed Reinforced Concrete Box (RCB) to be put under the highway, due to size and length needed for the box another option was introduced. Instead of RCB, two HP Pipes with the Inline Bell would be used. This would offer the project fewer joints and quicker installation compared to the RCB. The dual 60” PPP would go a length of 220 feet, cover of 25 feet, ACS flared ends, watertight joints, and resilient for 100 years.

The keys takeaways where that what was previously thought to be the case will wash out in storm sewer joints is no longer with these pipes and that competition will drive to more usage of these pipes on projects.

Dirk concluded the presentation and opened the floor for questions.

**Meeting Attendees**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Debra | Ary | 18 | Ky | Louanghaksaphone |
| 2 | Allison | Atkinson | 19 | Charles | May |
| 3 | Gregory | Baalman | 20 | Dakota | McKee |
| 4 | Michael | Bailey | 21 | Philip | McKinney |
| 5 | Absalom | Bernal | 22 | Logan | Mills |
| 6 | Caleb | Coltrane | 23 | Connor | O’Connell |
| 7 | Colin | Costley | 24 | Behrooz | Rahbar |
| 8 | Jacob | Crowell | 25 | Garrett | Reed |
| 9 | Macee | Crowell | 26 | Jessica | Rhein |
| 10 | Harlan | Foraker | 27 | Jessica | Slavik |
| 11 | Jamie | Goering | 28 | Reagen | Snow |
| 12 | John | Heinz | 29 | Anne | Stephens |
| 13 | Derek | Kratzer | 30 | Mike | Stump |
| 14 | Stephen | Lackey | 31 | Tyler | Ummel |
| 15 | Brett | Letkowski | 32 | Lukas | Vohs |
| 16 | Scott | Lindebak | 33 | Albert | Wagner |
| 17 | Dmitry | Lomachenko | 34 | Dirk | Hudson |

Meeting adjourned by President Caleb Coltrane at 12:50 p.m.

Minutes respectfully submitted by Secretary Dakota McKee.