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| logo_ashrae.png | **DRAFT Agenda** |
| TC 7.5 Fault Detection and Diagnostics 3:00-3:45 pm (EDT), Wednesday, June 17, 2020  <https://zoom.us/j/94940656350?pwd=WG9kYnF0bkdrY2NyZThTdE0yL3lmQT09>  **Prepared by Liping Wang** |

**Subcommittee Scope:** explore and develop technologies to detect and diagnose common faults in both commercial and residential buildings. The scope of this subcommittee includes (a) identifying and sponsoring research projects to develop new FDD technologies, evaluate existing FDD technologies; provide recommendations to building operators and practical engineers, and develop supporting tools for researchers in FDD areas, and b) organizing programs to disseminate research findings and advancements in FDD areas among ASHRAE members.

Agenda:

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| 0:00 | **Call to Order** |  |
|  | Self-introduction, announce the subcommittee scope. |  |
| 5 mins | **Sessions at current ASHARE conference** |  |
|  | Labeling Modes of Operation and Extracting Features for Fault Detection with Cloud-Based Thermostat Data (VC-20-C006)  Monday, June 22, 2020  8:20 AM - 8:40 AM | Austin Rogers |
|  | Seminar 63 Facilitating the Operation of Smart Buildings through Instrumentation, Monitoring and Data  * [Overview and Best Practices for Energy Metering in Modern Smart Buildings](https://ashraem.confex.com/ashraem/s20/meetingapp.cgi/Paper/27684) * [Case Studies of Integrating Luminaire-Level Occupancy Sensor Signals with HVAC and Plug Loads for Added Savings](https://ashraem.confex.com/ashraem/s20/meetingapp.cgi/Paper/27686) * [Filling in the Gaps! When Sensors Aren’t Enough](https://ashraem.confex.com/ashraem/s20/meetingapp.cgi/Paper/27685)   Monday, June 22, 2020  8:00 AM – 9:00 AM | Glenn Remington  Scott Hackel  Nick Gayeski  Kristen Cetin (Chair) |
| 5 mins | **Annual ASHRAE conference seminar ideas**   * Fundamental and Applications * HVAC&R Systems and Equipment * Refrigeration and Refrigerants * Environmental Health Through IEQ * Building Performance and Commissioning for Operation and Management * Energy Conservation * International Design * Standards, Guidelines and Codes * Mini-track based on Chuck Gulledge's Presidential Theme   Seminar proposals June 15, 2020 – August 3, 2020 |  |
| 10 mins | **Potential Seminar Ideas for Austin, TX** |  |
|  | Automated Alarm Management: DDC alarms used for FDD?  Segment the alarm information into useful pieces. The building operator has to go through all the alarms. Make presentation to collect information to make an RTAR is a goal. TC1.4: program will be the co-host. | Carol Lomonaco, Kim Barker |
|  | FDD in Guideline (GPC) 36 | TC 1.4, co-sponsor 7.5 FDD  Chair: Guanjing Lin (LBNL) |
|  | Fault prevalence types and impacts by building types and system types. | Piljae Im (Chicago) |
|  | Facility User of FDDs (90 FDD owners, savings, best practice), FDD for Roof Top Unit | Guanjing Lin, Orlando  Durak |
|  | Residential FDD (multip family residential buildings) revIew of FDD on residentials. | David Yuill |
|  | Big Data analysis for AFDD | Jin wen |
|  | New idea: User’s experiences with FDD? How do users respond to the alarms, correct or false? | Austin Rodgers, PNNL |
|  | New ideas? |  |
| 15 min | **Update/Discussion of Active project/RTARs/Work Statement** |  |
|  | Development of AFDD for leakage of ground-source heat pumps (work statement revision) | Zheng O’Neill and Kristen Cetin |
|  | Evaluation of ASHRAE Standard 207P | David Shipley, Kim Barker |
|  | **New Research Ideas** |  |
|  | RTAR idea: collect, clean, and label existing data for FDD research. | Xiwang Li, Liping Wang, Kristen Cetin. Shawn Shi |
|  | Automated Alarm Management: DDC alarms used for FDD? (automated analytics to correct alarms or utilize alarms) – return the threshold to reduce false alarms in an automated process. | Carol Lomonaco;  Reinhard Seidl, Li Song, Te Qi, John Wallace |
|  | What research should TC 7.5 provide to use the FDD results to support the energy-saving requirement for Standard 90.1 and 189.1? What is the minimum requirement for the 90.1? An internal TC7.5 meeting. | Guanjing Lin and Kim |
|  | User experience and organization adoption of FDD |  |
| 10 min | **New ideas and discussions** |  |
| Adjourn | | |