Seminars and Meetings organized by Marek Perkowski

1. Monday 7 pm. Room FAB 155 (conference room). **Machine Learning for Teens**. This meeting is about Machine Learning, Artificial Intelligence and Robotics from the base level. It is attended by beginners, teenagers. We covered various classifiers and Machine Learning tools, Boolean logic and reversible circuits, state machines and Prolog. Now we cover spectral methods in ML and Vision. Soon we will talk about biped robot programming.

2. Wednesday 7 pm. Room FAB 155. **Memristors and Stochastic Systems**. This meeting is for graduate and advanced undergraduates. Memristor circuit, logic and system design. Digital versus fuzzy memristors. Pipelining and SIMD. FSMD and FSMDM. New types of memristive devices. Multi-valued logic. Differential equation systems. Neural nets and vision architectures with memristors.

3. Thursday 5pm. Room FAB 20 (may be changed). **Robotics**. Motion control of humanoid robots. Facial expressions. Musical robots and FFT. Agriculture robots. Kalman Filters. 3D printing. Theory and design of bipeds. Emotional robots and emotional behaviors. Robot Theatre. Neural Networks. Projects discussion.

4. Friday 12:30 am. Room FAB 84. **Mister Jeeves Robot**. Richard Armstrong's Mr.Jeeves team robot building. Navigation and behaviors.

5. Friday 5pm – 9pm. Main meeting of all advanced students**. Quantum Computing**, Reversible Logic, quantum and reversible circuits. Quantum Machine Learning. Reading and writing papers for journals.

6. Saturday 11am – 1pm. Robotics Laboratory. **Robot Theatre Design.** Help with mechanical, electrical and installation design for Portland Cyber Theatre.