Breakout Session on Distributed Systems and Cloud Computing **Panelists and Group Members:** Panos Kalnis, Ken Birman, and Ahmad T. Al-Hammouri **Potential Collaborative Activity:** PMU Deployment and the Smart Power Grid

The idea stems from the different hurdles that researchers in USA face in acquiring data of Phasor Measurement Units (PMUs) installed on the production grid. The lack of such data inhibits building any tangible PMU-based applications. Since PMUs are envisaged as the enablers of the smart power grid, the objective is to obtain several (a few hundreds) of PMUs and deploy them in several parts of the power grid in Jordan by convincing the relevant stakeholders in Jordan (utilities and/or government bodies) of the potential of PMUs. PMU data will be then harvested and archived during different time periods and weather conditions. Different application utilizing PMU data can then be implemented, such as inferring about the grid state and predicting of problems (e.g., blackouts). Such a collaborative project will have other several benefits: fostering student and professor exchange between Jordan and USA, creating an appropriate environment for startup spin offs relying on PMU based applications, and driving innovation and job creation.