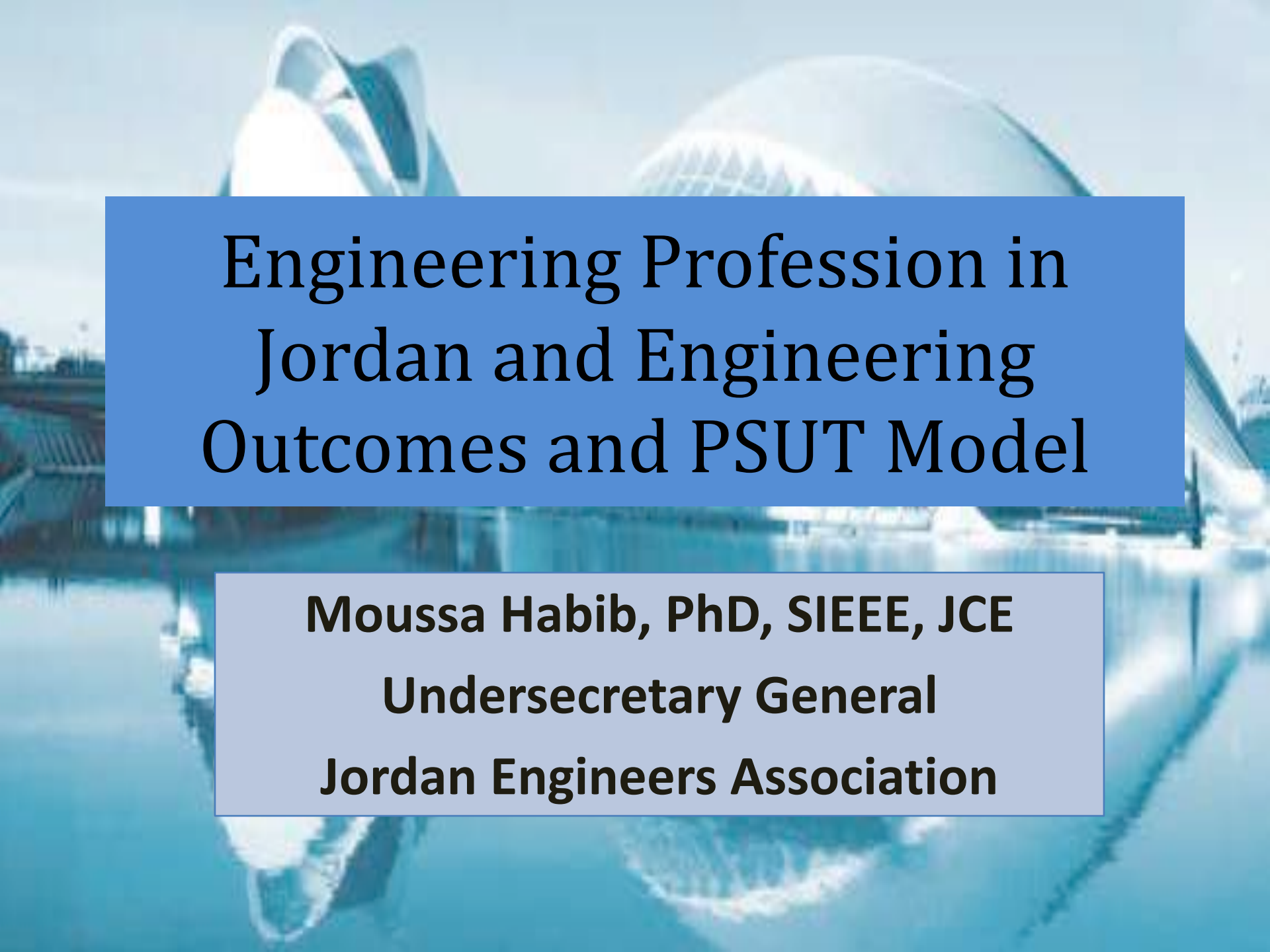





MEDACCR Project

Kickoff meeting
13th- 16th February 2018



Engineering Profession in Jordan and Engineering Outcomes and PSUT Model

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Undersecretary General
Jordan Engineers Association



- **How do we build mutual understanding among nations about the quality of engineers who enter the globally connected workplace?**



- George Peterson,
- Washington Accord Secretariat, 2001–2007

Contents

- Overview
- Role of JEA
- PSUT Vision
- JEA Graduate Attributes

Overview

- **JEA is 150,000 registered members**
- **11 branches (Amman Center) and 14 branches (Jerusalem Center)**
- **30+ JEA liaison offices in the world**
- **60,000 engineering students at National Universities**
- **1280 engineering firms in Jordan alone**
- **Every 30+ minutes we have a new engineering graduate in the six disciplines of JEA main streams**
- **55,000 registered members in Electrical engineering discipline and 30,000 in Civil, and 25,000 in mechanical alone.**
- **35,000 Jordanian Engineers in the Gulf alone**

Overview

- JEA was established in 1958 with a Jordan Engineering ACT (first amendment 1972)
- PSUT was established in 1991 with two schools Electrical Engineering and Information Technology Schools (a total number of students of 3500 and 160 staff members)
- Jordan Has a the Higher Commission for Quality and Accreditation (Independent Body)



Role of JEA in the education and training in the formation of a **Practicing Engineer**

- Meet standard of engineering education: Graduate Attributes
- Meet standards for professional competency
- Observe code of conduct
- Maintain competencies

PSUT Vision in the formation of Practicing Engineers

- Creating the programs of engineering that meet the requirement of the engineering practice according to JEA standards
- PSUT achieved the first two attributes of having its programs by ABET.
- Making the un employability rate at its minimum level by meeting the other two standards

Engineering Market GAP

- **Its all about engineering attributes needed in a global engineering world**

Attribute

- **JEA Graduate Attribute Profile has 12 elements, supported by a Knowledge Profile (8 elements), and a definition of the Level of Problem Solving, which support the culture of quality assurance and accreditation**

Graduate Attributes of Quality Assurance and Accreditation

Engineering knowledge

Problem analysis

Design/development of solutions

Investigation

Modern tool usage

The engineer and society

Environment and sustainability

Ethics

Individual and teamwork

Communication

Project management and finance

Life-long learning

Attributes: Complex Engineering Problem and activities

1. Depth of knowledge required
2. Range of conflicting requirements
3. Depth of analysis
4. Familiarity of issues
5. Extent of applicable codes
6. Extent of stakeholder involvement and needs
7. Interdependence

1. Range of resources
2. Level of interactions
3. Innovation
4. Consequences to society and the environment
5. Familiarity



Thank You

شكرا Merci Grazie

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