

**DR. HAFEZ, Salah M.***Assistant Professor, Aeronautical Engineering Dept., King Abdulaziz University***Education**

| <i>Degree</i> | <i>Field</i>           | <i>Institution</i>                 | <i>Year</i> |
|---------------|------------------------|------------------------------------|-------------|
| Dip Ed        | Education              | University of Melbourne, Australia | 2002        |
| PhD           | Mechanical Engineering | University of Melbourne, Australia | 1991        |
| MS            | Mechanical Engineering | Cairo University, Egypt            | 1985        |
| BS            | Mechanical Engineering | Cairo University, Egypt            | 1979        |

**Academic Experience**

| <i>From</i> | <i>To</i> | <i>Institution</i>   | <i>Rank</i>   | <i>Title (Chair, Coordinator, etc.)</i> | <i>Full or Part Time</i> |
|-------------|-----------|----------------------|---------------|---|--------------------------|
| 2006        | Date      | King Abdulaziz Univ. | Assist. Prof. |   | Full Time                |
| 1999        | 2006      | Univ. Of Melbourne   | Res. Fellow   |   | Full Time                |
| 1993        | 1998      | Cairo Univ.          | Assist. Prof. |   | Full Time                |
| 1990        | 1992      | Univ. of Melbourne   | Post Doc.     |   | Full Time                |
| 1986        | 1990      | Univ. of Melbourne   | PhD Student   |   | Full Time                |
| 1979        | 1985      | Cairo Univ.          | Tutor         |   | Full Time                |

**Non Academic Industrial Experience**

| <i>From</i> | <i>To</i> | <i>Company/Entity</i>            | <i>Title</i> | <i>Position Description (Brief)</i>   | <i>Full or Part Time</i> |
|-------------|-----------|----------------------------------|--------------|---|--------------------------|
| 1993        | 1993      | Hamza & Assoc., Egypt            | Consultant   | Improving thermal efficiency for waste heat boiler, Cairo                       | Part Time                |
| 1995        | 1995      | Hamza & Assoc., Egypt            | Consultant   | west thermal power plant<br>Design of Hydro-Mechanical systems                  | Part Time                |
| 1996        | 1998      | EQE Consultants, Egypt           | Consultant   | Provide training and technical support for ISO 9000 and ISO 14000 accreditation | Part Time                |
| 2006        | 2006      | Woodshed Technologies, Australia | Consultant   | Assessment of novel water lifting devices                                       | Part Time                |

**Funded Research Projects and Patents from the Past Five Years**

- 20014-2016, National Plan for Science and Technology, King AbdulAziz City for Science and Technology, KACST, *Innovative Methods to Improve Aerodynamic Performance of Aircraft*
- Distinct Research Proposal (KAU) – Oct. 2012
- 2009-2011, National Plan for Science and Technology, King AbdulAziz City for Science and Technology, KACST, *High Angle of Attack Aerodynamics*

**Certifications and Professional Registrations**

Registered Professional Engineer in Egypt

### Current Membership in Professional Societies and Organizations

| <i>Society/organization</i>                     | <i>Rank</i> | <i>Member Since</i> |
|---|-------------|---------------------|
| 1. Egyptian Syndicate of Professional Engineers | Member      | 1979                |

### Honours and Awards

1. I.B.M Cairo Scientific Centre, May - September 1984 and 1985.
2. Melbourne University Postgraduate Scholarship, 1986-1990.

### Institutional and Professional Services

1. Academic advisor for more than 10 students each year, Aeronautical Eng. Dept., KAU, 2007-present.
2. AE Program Champion for ABET Reaccreditation, 2010 - present.
3. Head of laboratory and AE Departmental Accrediation Committees, 2010 - present.

### Principal Publications/Presentations from the Past Five Years

1. Al-Qadi, I., Khalid, M. and Salah, H., 'Aerodynamic Performance Studies with a Trailing Edge Jet Flap', 51<sup>st</sup> AIAA conference, Dallas, Jan 2013, AIAA2013-0239.
2. Khalid, M., Al-Qadi, I. and Salah, H., 'Aerodynamic Performance Studies with a Trailing Edge Jet Flap', Submitted to Canadian Aeronautics and Space Journal.
3. S. Alzhrani, S. Hafez, K. A. Juhany and I. Al-Qadi. Tomo-PIV Measurements of Flow Around A slender Body at High Angles of Attack. ICOMASEF, Prato, Italy Sep. 2013
4. S. Alzhrani, S. Hafez, K. A. Juhany and I. Al-Qadi. Tomo-PIV Measurements of Flow Around A slender Body at High Angles of Attack. Accepted for publication on Fluid Mechanics and its Applications Volume: "Instability and Control of Massively Separated Flows", Springer, 2014

### Recent Professional Development Activities (*Workshops, training, etc.*)

1. "Recent Changes in EAC of ABET Accreditation Requirements," ASU Workshop, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia, Jan. 2014
2. ABET Institute for the Development of Excellence in Assessment Leadership (IDEAL) Workshop, Gloria Rogers, ABET Foundation, King Abdulaziz University, Jeddah, Saudi Arabia, Sept. 2013.
3. ABET Program Assessment Workshop, Ashley Ater Kranov, Managing Director, ABET Professional Services, King Abdulaziz University, Jeddah, Saudi Arabia, Feb. 2012.
3. Application of Pressure Sensitive Paint - Theory and Practice, DLR, Sep. 2011
4. Application of Particle Image Velocimetry - Theory and Practice, DLR, Feb. 2008