

CURRICULUM VITAE

Professor Mohamed AICHOUNI

Web Site : <http://faculty.uoh.edu.sa/m.aichouni/>



Brief Resume Profile

- Highly Motivated with a Passion for **Quality Improvement** and **Performance Excellence**.
- Proven expertise in Leading Educational and Research institutions towards excellence.
- **Strategic and Operational Achievements in Academia**. Recognized for Excellence in Teaching, Training and Research at Academic Institutions, Governmental Bodies and Industrial Organizations.
- Strong Focus on Delivering First Class Services in Teaching, Research, Consulting, Administrative Affairs and Community Services.
- Effective Team-builder and **Proven Leadership Skills**.
- **Certified Assessor** at King Abdul-Aziz Quality Award (Saudi Arabia); **Member of the Saudi Quality Council**.
- **Author of five Textbooks, Scientific Papers on Quality Improvement, Quality Systems** and other Engineering Topics.
- **Peer Reviewer** of Leading International Journals.

My professional experience can be summarized in the following points:

- **Over 20 years of wide ranging professional experience** in Higher Education (*Teaching, Research, Consulting and Academic Leadership*) in *different Educational Systems* (the United Kingdom, Algeria and Saudi Arabia)).
- Successful Implementation of Modern Management Philosophies such as **Total Quality Management and Strategic Planning** to manage change within Higher Education Institutions, government and charity organizations.
- **Speaker at international conferences** in the US, Canada, France, Germany, the UK and the Arab world.
- Responsible for **Designing several executive educational and training programs** in contemporary topics of interest to senior management such as *Quality Management, Continuous Process Improvement*, Industrial Maintenance, Mechatronics (at the TVTC and King AbdulAzziz City of Sciences and Technology).
- Responsible for **developing and delivering Industrial Training programs** on *Quality Management, Statistical Process Control, Metrology, Information Technologies*. These training programs were delivered to Governmental Bodies and Industrial organizations.

Education / Qualifications

- **Ph.D** in **Mechanical and Aeronautical Engineering**, 1992, The Aeronautical and Mechanical Engineering Department, **University of Salford, Manchester, The United Kingdom**.
- **English Language Test Specifications**, 1988, A joint Program between Cambridge University and the University of Oran, Algeria under the Auspices of The British Council .
- **BSc** in Marine Engineering (with high Distinction), 1987, Department of Marine Engineering, University of Science and Technology of Oran, Algeria

Professional Experience

- **Professor (Sept 2012 – Present)**, Industrial Engineering Department, College of Engineering, Hail University, Saudi Arabia.
- **Associate Professor (Sept 2009 – Aug. 2012)**, Mechanical Engineering Department.
- **Assistant Professor (Sept 2001 – Aug. 2009)**, The Mechanical Engineering Department, Hail College of Technology, Saudi Arabia.
- **Associate Professor (May 1996 – Aug 2001)**, Faculty of Sciences and Engineering, University of Mostaganem, Algeria: *Nominated and approved for the position of **Professor in Mechanical Engineering**, by the Scientific Committees of the Department of Mechanical Engineering, the Engineering College and the University, on June 2001.*
- **Assistant Professor (Sept 1992- April 1996)**, Faculty of Sciences and Engineering, University of Mostaganem, Algeria.
- **Part time Laboratory Demonstrator (1988 – 1992)**: Aeronautical and Thermo-Fluids laboratories, The Aeronautical and Mechanical Engineering Department, University of Salford, The United Kingdom.

Taught Courses:

(1) Graduate level :

Quality Control (*with three books published*)
Industrial Metrology (*with one book published*),
Manufacturing Systems, Dynamics
Fluid Mechanics
Thermodynamics and Heat Transfer
Probability and Statistics for Engineers

The e-Learning approach has been successfully adopted through the effective activation of the three components of World Class Higher Education Model (Teaching-Research-Community Services), to design and deliver online courses for:

- *Quality Control* (<http://hctmetrology.tripod.com/quality>),
- *Probability and Statistics for Engineers* (<http://faculty.uoh.edu.sa/m.aichouni/stat319/>)
- *Dynamics* (<http://faculty.uoh.edu.sa/m.aichouni/me201/>)
- *Metrology* (<http://hctmetrology.tripod.com>),
- *Manufacturing Systems* (<http://hctmanufacturing.tripod.com>) and
- *Introduction to Engineering* (<http://faculty.uoh.edu.sa/m.aichouni/prep004>);

These e-courses are classified by the Google search engine among the first sites out of millions of sites on the net.

(2) Post-graduate level (MSc):

Computational Fluid Dynamics
Experimental Fluid Dynamics,
Heat and Mass Transfer,
Environmental Engineering.

Research Experience

- **Principal Investigator and a Founder Member** of ‘*BinLaden Research Chair on Quality and Productivity Improvement in the Construction Industry*’ at the University of Hail. <http://www.uoh.edu.sa/dept/qicrc/> ; Externally funded by Saudi BinLaden Group (May 2010 – Present)
- **Scientific Head and Initiator of a Master Programme and Diploma Degree in the area of Quality Engineering and Management**, at the College of Engineering, Hail University (2012/2013).
- **Member of the Scientific and Organization Committees of the 4th National Quality Conference**, 3-6 February 2013, Organized jointly by the University of Hail and the Saudi Standards Organization (SASO).
- **Chairman of the Scientific Committee of the TQM and Business Excellence in Government Services Workshop**, organized by the University of Hail with the Collaboration of the Saudi Organization for Standards and Quality (SASO) and the Saudi Quality Council, on 17th of May 2010. (<http://faculty.uoh.edu.sa/m.aichouni/tqm2010/>).
- **Member of a Research Group at King Abdul-Aziz City of Sciences and Technology** working on a project (KACST-N. 138-28) with the aim to develop the Strategic Plan for the **National Quality Centre** (January 2007-Dec 2007).
- **Principal Researcher and Leader of Externally Funded Research Projects** in the areas of *flow metering, flow conditioning, drag reduction in pipelines and pipe networks*. The research projects were funded by the National Agency of Scientific Research Development (ANDRU-Algeria) (1992-2001).
- **External Examiner** of more than 30 MSc and PhD theses and 50 BSc Projects.
- **Reviewer in International Journals** (The A.S.M.E Journal of Fluids Engineering, European Journal of Engineering Education, the Journal of Thermoplastic Composite Materials, and Academy Proceedings in Engineering Science).
- **Scientific head of a Master programme** in the area of Applied Thermo-Fluid Mechanics. 1999/2001 at the University of Mostaganem (All students have discussed their theses).

Research interests

My current research interests include:

- Total Quality Management and Business Excellence Models.
- Quality Improvement in the Construction Industry.
- Quality in Government Services. Quality in Engineering Education.
- Quality Control, Statistical Process Control and Quality in Services and Manufacturing.
- Dimensional Metrology and Manufacturing Systems.
- Experimental and Computational Fluid Dynamics Techniques and their applications to industrial fluid flow; Flow metering and flow conditioning systems.
- Mathematical and Numerical Modelling of Physical Phenomena.
- Web based Engineering Education (e-Learning), Curriculum Development.

Post-Graduate Theses Supervised

- **05 MSc and 1 PhD Theses** (*have been Advised up to final discussion*)
- **Currently 2 PhDs** are being prepared under my supervision (2006-present).

Administrative Experience

- **Vice Rector of the University** of Mostaganem (Algeria) (1994 – 2001)
In charge of *Post Graduate Studies, Scientific Research and External Relations*.
- **Vice Dean**, College of Engineering, Hail University, (August 2013 – Present).
- **Consultancy Advisor for the Vice Rector for Academic Development and Community Services**, Hail University, (Nov 2010 –May 2012).
- **Chairman**, Industrial Engineering Department, Hail University, (May 2012 – August 2013).
- **Member of the Executive Committee for "Cheikh Ali Joumaia" Centre for Training and Community Services**, Hail University, (Sept 2010 – 2011).
- **General Supervisor of the Council of Technical Education and Vocational Training at the Region of Hail** (February 2005 – January 2007).
- **Quality Director**, Hail College of Technology (February 2005 – January 2007).
- **Chairman of The Mechanical Technology Department**, Hail College of Technology (Saudi Arabia) (August 2006 –Aug 2009)

Honors / Awards / Affiliations / Membership

- **Certified Assessor** at the *King Abdul-Aziz Quality Award* (KAQA) (since 2008).
- **Member of Curriculum Development Team** working on the syllabus of *Quality Technician Degree* at the TVTC (2007-2008).
- Member of *the Arab Institute of Operations and Maintenance*(2005-2006)
- Member of the *National Committee for the evaluation of research projects*, Ministry of Higher Education and Scientific Research, Algeria. (1996-2001)
- Member of the *National Working Group on Metrology*, Ministry of Industry and the National Organisation of Legal Metrology, ONML, Algeria. (2000-Present)
- Associate Member of *the American Society of Mechanical Engineers, ASME* (1990-1994)
- PhD Fellowship: Under the British and the Algerian Governments technical co-operation program (1988-1992).
- Supervisor of the *Metrology Section at the Technical Discussion Forum* (www.tkne.net/vb) and the *Quality Control Section at the Arabic Statistician Discussion Forum* (www.arabicstat.com/board/).

Community Services

- **Expert Member and Advisor** in projects to develop **Strategic Plans** and **Quality Management Systems** based on **ISO9001:2008** for charity and non-governmental organizations (*King Abdul-Aziz Foundation for Social Services- Hail(2008-2009)*; *Charity Organizations for Koran Tahfidh in Riyadh and Hail (2012)*, and *Dr Nacer Al-Rasheed Center for Orphans, Hail (2013)*).
- **Quality Consultant** for the project to implement the Total Quality Management Strategy at Hail Police (2007-2009). *This project received high distinction from the Police National Leadership.*
- **Responsible for Designing several Executive Educational and Training Programs** and Syllabus in contemporary topics of interest to senior management such as *Quality Management, Quality Improvement, Industrial Maintenance, Mechatronics* (at the TVTC and King Abdul-Aziz City of Sciences and Technology).
- Responsible for **developing and delivering Industrial Training programs** on *Quality Management, Statistical Process Control, Metrology, Information Technologies*. These training programs were delivered to Governmental Bodies and Industrial organizations.

Other Certificates Awarded and Advanced Courses Attended

- King Abdul-Aziz Quality Award Training courses, held by Saudi Arabian Standards Organisation (SASO), in Al-Khobar and Riyadh (2008).
- Training courses (20hours) on AutoCAD, Machining and Metal Forming held at Hail College of Technology (2007).
- Computational Fluid Dynamics (CFD) Workshop held at the Imperial College of London, 1991.
- Industrial Flow Metering Course, held at the National Engineering Laboratory, East Kilbridge, U.K., 1991.
- Fluid Flow and Heat transfer modelling workshop, held in UMIST , The United Kingdom, 1990
- Advanced Computational Fluid Dynamics Course , held at UMIST, The United Kingdom, 1989.

Other Skills

- **Programming Languages:** Fortran, Java, Visual Basic and HTML.
- **Computer Packages:** Minitab15.0., Microsoft Office 2000 (Word, Excel, Access, FrontPage, Visio, MindJet).
- **Languages:** Fluent in English, French and Arabic.

Contacts

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Web site : <http://faculty.uoh.edu.sa/m.aichouni/>

List of Major Publications

1 – Books

- ❑ *Aichouni, Mohamed*, “Statistical Quality Control Using Microsoft Excel and Minitab” Hail University Publishing Center, 2013. ISBN: 978-603-9815-09-9. (In Arabic)
- ❑ *Aichouni, Mohamed*, “A Practical Guide to Continuous Process Improvement using the Seven Quality Tools for Planning and Management” Dar Al-Ass`hab Book Publishing, Riyadh, 2012. ISBN: 978-603-90163-8-0. (In Arabic)
- ❑ Bachioua, L., Berwari N and *Aichouni, M.*, “Organizational Excellence: Introduction to Quality and Best Practices – Concepts and Applications” Al-Waraq Book Publishing, Oman, Jordan, 2012, ISBN: 978-9957-33-301-0. (In Arabic)
- ❑ *Aichouni, Mohamed*, 'Fundamentals of Dimensional Metrology for ISO 9000 Quality Standards', Al-Obeiken Book Publishing, 2011, ISBN: 978-9960-54-813-5. (In Arabic)
- ❑ *Aichouni, Mohamed*, “A Practical Guide to Continuous Process Improvement using the Seven Basic quality Tools” Dar Al-Ass`hab Book Publishing, Riyadh, 2010, ISBN: 978-603-90163-0-4,
- ❑ *Aichouni, Mohamed*, ‘Quality Control – The Basic Tools and their Applications in Manufacturing and Services’, Dar Al-Ass`hab Book Publishing, Riyadh, 2007 ISBN 6690-75-688-2, (Included a Computer Based Training CD).

2 – International Journals and Edited Books Chapters

- ❑ *M. Aichouni*, N. Ait-Messaoudenne, A. Al-Ghonamy and M. Touahmia, (2013), "An Emperical Study of Quality Management Systems in the Saudi Construction Industry", **Submitted to Total Quality Management Journal**. (20 pages).
- ❑ *Mohamed Aichouni*, Driss Nehari, Sid Ahmed Daoud, Taieb Nehari, (2013), Numerical Simulations of an Oscillating Flow Past an Elliptic Cylinder, **Submitted to: Journal of Offshore Mechanics and Arctic Engineering**, paper N. OMAE-13-1034.
- ❑ Wan Yusoff Way, *M. Aichouni*, M. Zul Amzar Zulkiflee, Mohd Sallehuddin Ahmad Derifae (2013), Fabrication and Design of Customized Maxillofacial Biomodel for Implant Using Computer Aided Design and Rapid Prototyping Technique, **Applied Mechanics and Materials**, Vol.391 (2013) pp 406-409.DOI: 10.4028/www.scientific.net/AMM.391.406
- ❑ Ould-Said, B., Retiel, N. and *M. Aichouni*, (2013), "Laminar Natural Convection in a Two-Dimensional Vertical Conical Annular Space", **Phys. Chem. News**, Vol. 67, pp. 50-56.
- ❑ *Aichouni, M.*, Benchicou, S., and Nehari, D., (2013), “Knowledge Management through the e-Learning Approach – A Case Study of Online Engineering Courses”, Accepted for publication in **The European Journal of Engineering Education**.

- *Aichouni, M.* and Eid El-Haisoni, (2013), "Empirical Investigation of the e-Learning Approach in Saudi Universities", **Int. Journal of English and Education**, Vol. 2, N. 1, pp. 264-283.
- *Aichouni, M.* (2012), "On the use of the basic quality tools for the improvement of the construction industry: A case study of a ready mixed concrete production process", **Int. J. of Civil & Environmental Eng.**, Vol. 12, N. 5, pp. 31-38. http://www.ijens.org/Vol_12_I_05/127605-0808-IJCEE-IJENS.pdf
- Al-Ghonamy A., Halawa, M and *Aichouni, M.* (2011), "Technical Requirements for a Portable Metrology Laboratory in Hot, Arid Regions", **CAL-LAB Magazine**, Vol. 18, N. 2, pp. 36-40.
- Al-Ghonamy, A., Halawa, M and *Aichouni, M.* 'Technical Requirements for a Portable Laboratory for use in Hot Arid Regions', **The Canadian Journal on Electrical and Electronics Engineering**, Vol. 2 (4), pp. 103-111, 2011.
- Benchicou, S., *Aichouni, M.* and Nehari, D., "E-Learning in Engineering Education: A Theoretical and Empirical Study of the Algerian Higher Education Institution", The **European Journal of Engineering Education**, Vol. 35 (3), pp. 25-343, 2010.
- *Aichouni, M.* and Benchicou, S., 'How Technical College Courses become Successful web-based e-Learning Models Through the Integration of Teaching, Research and Community Services Activities', In "Integrating Teaching and Research with Community Service", Sharjah University Press, (2008); The U.A.E, ISBN : 9948-10-1064-6.
- Retiel, N., Bouguerra, E. h. and *Aichouni, M.*, 'Effect of curvature ratio on cooperating double-diffusive convection in vertical annular cavities', **Journal of Applied Sciences**, Vol. 6, N. 12 , pp. 2541-2548, 2006.
- *Aichouni, M.*, 'Statistical Quality Control Techniques', **Quality**, The Quarterly Bulletin Issued from the Total Quality Center of Abu Dhabi Police, pp. 10-11, N 6, September 2005.
- Laribi, B. , Waters, P. *Aichouni, M.*, and Ouali, M. ' Further analysis of the aerodynamic behaviour of flow conditioners', **The European Journal of Mechanical and Environmental Engineering** , Vol 48 N 3, pp. 167-176, Sept 2003.
- Laribi, B. , Waters, P. and *Aichouni, M.*, ' A Comparative study of the aerodynamic behaviour of three flow conditioners', **The European Journal of Mechanical and Environmental Engineering** , Vol. 48 (1), pp. 21-30, March 2003.
- *Aichouni M.* and Laribi B., 'Computational study of the aerodynamic behaviour of the Laws vaned plate flow conditioner', Paper N° FEDSM2000-1106; **In Forum on Fluid Measurement and Instrumentation**, 2000 ASME Fluids Engineering Conference, Boston, USA, June 11-15, 2000.
- *Aichouni, M.*, Laribi B., Retiel, N, Houat, Nehari D and Benchicou, S, 'Experimental investigation of the installation effects on the Venturi flow meter performance', Paper N° FEDSM2000-1107; **In Forum on Fluid Measurement and Instrumentation**, 2000 ASME Fluids Engineering Conference, Boston, USA, June 11-15, 2000.
- *M. Aichouni*, E.M. Laws, A.K. Ouazzane, 'Experimental Study of the effects of upstream flow condition upon Venturi flow meter performance', Presented at 'The 6th International Symposium on

Flow Modelling and Turbulence Measurements’, Florida, USA, September, 8-10, 1996. Published In ‘Flow modelling and turbulence measurements’, ed. C.J. Chen et al., A.A. Balkema , Rotterdam, The Netherlands.

- E. M. Laws *and* **M. Aichouni**, ‘An evaluation of the accuracy of Hot-wire measurements’. *Thermal Anemometry 1993, FED-Vol. 167, pp. 135-143*; Edited by D.E. Stock et al. The Fluid Engineering Conference; Washington, D.C. U.S.A. June, 20-24 ,1993.
- E. M. Laws *and* **M. Aichouni**, ‘A Comparative study of two turbulence Models in Predicting the development of initially distorted Turbulent Pipe flows’. *In Data for Validation of C.F.D Codes, FED-Vol. 146, pp. 45-60*; Edited by Dan Goldstein et al. The Fluid Engineering Conference; Washington, D.C. U.S.A, June, 20-24 ,1993.
- **M. Aichouni** *and* E. M. Laws, ‘Computational treatment of initially distorted pipe flow’. *In Forum on Turbulent flows - 1991, FED - Vol 112*, pp. 171-177. Edited by M.J. Morris et al. ‘The first ASME / JSME Fluids Engineering Conference’. Portland, Oregon, USA. June 23-27, 1991.
- E. M. Laws *and* **M. Aichouni**, ‘Analysis of the decay of turbulent pipe flow - A preliminary study’, *In Forum on Turbulent Flows - 1990, FED-vol. 94, pp. 51-56*. Edited by W.M. Bower et. al. ‘1990 ASME/CSME Fluids Engineering Conference’, Toronto, Canada. June 4-7, 1990.

3 – International Conferences and Proceedings

- WAN Yusoff, **Aichouni M**, MA A Raman, M I Abu Bakar, (2013), "Fabrication and Design of Customized Mandible Biomodel for Implant Using Computer Aided Design and Rapid Prototyping Technique", 2nd International Conference on Advances in Mechanics Engineering (ICAME 2013), Indonesia July 13-14.
- **Aichouni, M.**, (2013), " Use of the Basic Quality Tools for the Improvement of the Production Process of a local Ready Mixed Concrete Plant in Hail", The 4th National Quality Conference, Hail University – Saudi Standards Organization (SASO), 3-6 February.
- Ait-Messaoudenne N, **Aichouni, M** (2012), Alternative Energy Sources for Remote Borders Control Sites, The International Conference on Borders Security, Ministry of Interior, Riyadh, 2-7 June.
- K.S. Abdel Halim, M. Ramadan, N. Messaoudene, **M. Aichouni** *and* A.A. Al-Ghonamy, (2013), Thermal Synthesis of Nano-sized Modified Steel for Construction Applications, The 2nd International Conference on Modern Trends and Developments in Chemistry, Al-Ghardaga, 13-15 February, Egypt.
- Retiel,N., Ould Said, B. *and* **Aichouni, M.**,(2012), "CFD simulation of heat transfer in a two-dimensional vertical conical partially annular space"; ICHMT International Symposium on Advances in Computational Heat Transfer (CHT-12), Bath, UK, July 1-6.
- **Aichouni, M.** , El-Haisoni, E., *and* Bachioua, L., "Preliminary Study of the e-Learning Strategy in Saudi Higher Education Institutions", The 5th International Conference on “Excellence in Education 2011: Giftedness-Creativity-Development”, Istanbul University, Turkey, 6-9 July 2011.
- **Aichouni, M.** *and* Al-Ghonamy, A., "Towards a Simple Approach based on Process Improvement to Measure Quality Indicators in Higher Education Institutions"; The 3rd Conference on "Quality in University Education in the Islamic World", Naif Arab University For Security Science (NAUSS), Riyadh: 20-22 December 2010.

- **Aichouni, M.** and Al-Shammari S., ‘On the Use of Quality Tools and Techniques for Improvement of the Learning Process in Engineering Education’, *The 5th International Forum on Engineering Education IFEE 2010 - “Engineering Education in the 21st Century – Quality, Globalization and Local Relevance”*, Sharjah University, 23-25 November 2010, The U.A.E.
- **Aichouni, M** , Al-Rugy, N. and Al-Mutairi, K. ‘The Total Quality Management Approach as a Strategy for performance improvement in the Saudi Police – A Case Study’, *The International Conference on Administrative Development : Towards Excellence in Public Sector Performance*, Riyadh, 1-4, November 2009.
- **Aichouni, M** and Benchicou S, ‘Back to Basics : The seven basic quality tools and their applications in manufacturing and services’, *The 2nd Quality Congress Middle East (QC2008)*, Dubai, UAE, April, 6-9, 2008.
- **Aichouni, M**, ‘Strategic Planning as a Strategy for Performance and Quality Improvement of the Training Process at Technical Colleges’ *The Third Conference on TQM in Education and Training*, Jeddah College of Technology, 10-11, November, 2008. (*The article is in Arabic language*).
- Retiel, N, **Aichouni, M** and Bouguerra, E.H., ‘Numerical Investigation of transient formation of multilayered structures associated with double diffusive convection in annular cavities’, *The 3rd International Conference on Thermal Engineering – Theory and Applications*, Amman, Jordan, May 21-23, 2007.
- **Aichouni, M** and A. S. Al-Harbi, ‘Quality Education and Training – Experience with an Arabic web-based e-Learning course on Quality Control’, e-Proceedings of the *1st International Congress of the Middle East Quality Association (MEQA-07-UAE)*, Dubai, UAE, March, 25-27, 2007. (ISBN : 978-9948-03-410-0).
- **Aichouni, M**, ‘Measurement of the Quality of the Industrial Maintenance Training Program from the Saudi Market stand point (in Arabic)’, Proceedings of *The 4th Saudi Technical Conference and Exhibition*, GOTEVOT, Riyadh, Kingdom of Saudi Arabia, December, 2-6, 2006.
- Al Nais M. O. and **Aichouni, M**. ‘Industrial Maintenance Education and Training in the new millennium’, Proceedings of the 4th International Operation and Maintenance Conference in the Arab Countries OMAINTEC 2005, Beirut, 20-23 June 2005.
- **Aichouni, M**, and Al Nais, M O., ‘e-Learning in Technical Education and Vocational Training: From Concepts to Practice’, Proceedings of the 3rd *Saudi Technical Conference and Exhibition*, GOTEVOT, Riyadh, Kingdom of Saudi Arabia, December, 11-15, 2004.
- **Aichouni, M**, and Belebna, M., ‘Metrology Training at the Technical Education and Vocational Training’, Proceedings of the 3rd *Saudi Technical Conference and Exhibition*, GOTEVOT, Riyadh, Kingdom of Saudi Arabia, December, 11-15, 2004.
- Al Nais, M.O. and **Aichouni, M**. ‘Web-based Approach Applied to Technical Courses to Enhance Engineering Education Quality’, Proceedings of the *1st Baha Technical Meeting*, Vol 2, pp 131-137, Baha College of Technology, May, 3-5 ,2004.

- ❑ **Aichouni, M.** and Al Nais, M.O. `Computer Based demonstrations of Statistical Quality Control for Engineering Students`, Paper N: Comp 132, *The 2nd Saudi Science Conference*, King Abdul Azziz University, Jeddah, 15-17 Marsh 2004.
- ❑ Benchicou, S and **Aichouni, M.** `Computational Study of the Aerodynamic Behavior of Flow Conditioners Used in the Oil and Gaz Industry`, Paper N: Eng 132. *The 2nd Saudi Science Conference*, King Abdul Azziz University, Jeddah, 15-17 Marsh 2004.
- ❑ **Aichouni, M** and Al Nais M. O., `Interactive Demonstrations of Statistical Quality Control for Engineering Students using Computer-Based Tools`, The Third Forum on Engineering Education, Sharjah University, UAE, October 14-15, 2003.
- ❑ **Aichouni, M** , Laribi, B., Benchicou, S. and Chirigui M. 'Metrological aspects of Industrial flow metering systems', *The 4th Middle East Refining and Petrochemicals Exhibition and Conference*, Bahrein, 29 Sept-01 Oct, 2003.
- ❑ **Aichouni, M**, Al Nais, M. and Laribi B., `On the metrological performances of differential flow meters`, Proceedings of *The 6th Saudi Engineering Conference: Engineering and Engineering Education* , vol. 5, pp. 97 – 101, King Fahd University of Petroleum and Minerals, Dahrn, Kingdom of Saudi Arabia, December 14-17, 2002.
- ❑ **Aichouni, M**, and Al Nais, M., `An educational package on statistical quality control for engineering students`, *The 2nd Saudi Technical Conference and Exhibition*, GOTEVOT, Riyadh, Kingdom of Saudi Arabia, October 26-30, 2002.
- ❑ Laribi, B. , Waters, P. And **Aichouni, M**, `Experimental study of the aerodynamic behavior downstream of three flow conditioners`, Paper N° FEDSM2002-31080; The 2002 ASME Fluids Engineering Conference, Montreal, Quebec, Canada, July 14-18, 2002.
- ❑ **Aichouni, M.**, Laribi, and Wauters, P. `Experimental investigation of the installation effects on Venturi and Orifice flowmeters`, The 10th International Metrology Congress, BNM, Saint Louis, France, October 22-25, 2001.
- ❑ Laribi, B. and **Aichouni, M**, `Experimental study of the decay of swirling turbulent pipe flow and its effect on the orifice meter performance`, Paper N° FEDSM2001-18039; 2001 ASME Fluids Engineering Conference, New Orleans, USA, May 29 – June 1, 2001.
- ❑ Benchicou, S. and **Aichouni M**, `An experimental investigation of the accuracy of industrial Venturi flow meters`, The 5th International Meeting on Energetic Physics, University of Bechar, Algeria, November, 07 – 09, 2000.
- ❑ **Aichouni M.** and Messoul A., `Numerical study of turbulent flow in smooth and rough circular pipes. The 5th International Meeting on Energetic Physics, University of Bechar, Algeria, November, 07 – 09, 2000.
- ❑ **Aichouni M** and Benchicou, S, `Turbulence control by passive means - Applications to drag reduction`, 2nd International Colloquium on marine sciences, Naval Forces Commandment, Algiers, May 29-31, 1999.
- ❑ **Aichouni, M**, Mous, M. Benchicou, S., Mouaici, M. Belghit, M. Mechmeche M, `How flow meter condition affects measurements accuracy`, 7th International Symposium on Flow Modelling and Turbulence Measurements`, Tainan, Taiwan, October 5-7, 1998.

- **Aichouni**, M, Mous, M. Benchicou, S., Mouaici, M. Belghit, M. Mechmeche M, ‘Experimental study of the effect of internal geometrical irregularities on the performance of a Venturi flow meter’, 3rd Scientific and Technical Meeting of SONATRACH, Algiers, April, 19-22, 1998.
- **M. Aichouni**, M. Mouaici, S. Benchicou, Y. Fergag, G. Farhi, M. Benni et A. Djedid, ‘Experimental study of the installation effects upon a Venturi flow meter’, Proceedings of the First Arab Congress on Mechanics, vol. 1, pp. 222-216, Damascus, Syria, 01-03 June 1997.
- **M. Aichouni**, S. Benchicou, E.M. Laws, ‘Numerical treatment of partial differential equations. Applications to thermo-fluid dynamics problems’. 4th International Colloquium on Numerical Analysis, Plovdiv University, Bulgaria, August 13-17, 1995.
- E. M. Laws and **M. Aichouni**, ‘ The development of fully development turbulent pipe flow - An analytical and experimental study of the entrance region’. The Eighth Symposium on Turbulent Shear Flows. Munich, Germany. September, 9-11, 1991.

4 – Technical Reports

- **Aichouni, M.** (2012), "Use of the basic quality tools for the improvement of the construction industry- Case study of Tammami Mix, Hail", Technical Report submitted to the Tammami Mix Co. leadership in Hail, January 2012.
- **Aichouni, M.** (2012), "Use of the basic quality tools for the improvement of the construction industry- Case study of of a Local Ready Mix Concrete Production Process ", Technical Report submitted to Saudi Binladen Group leadership, January 2012.

5 – General Journal Papers and Presentations

The List includes only recent papers and presentations

- **M. Aichouni**, ‘(2013), "Quality in the Construction Industry", Consumer and Quality, Special Volume for the 4th National Quality Conference, February, 3-6, 9 pages.
- **M. Aichouni**, ‘(2012), "Continuous Process Improvement Tools and Techniques", Consumer and Quality, Vol. 28, pp. 38-41.
- **M. Aichouni**, ‘Statistical Process Control in the Construction Industry’, The Saudi BinLaden Group Headquarters, Jeddah, World Quality Day, 21 November, 2011.
- **M. Aichouni**, ‘Quality Improvement Using the Seven Basic Quality Tools’, The Saudi Quality Council, Jeddah, June, 8, 2010.
- **M. Aichouni**, ‘The Total Quality Management Approach in Government Services’, Presentation given to Top Management Leadership of Hail Police, August 16th , 2010.
- **M. Aichouni**, ‘The Six Sigma Approach’, Presentation given to Gulf Farabi Co. Top Management, Al-Khobar, May 29, 2009.
- **M. Aichouni**, ‘Process Improvement in Healthcare Services’, Health Care Management Network, King Khaled Eye Specialist Hospital, Riyadh, June 24th 2009.

- **M. Aichouni**, 'Total Quality Management Approach in for Performance Improvement in the Police Service', Hail Police (Dawriyates), May 14th, 2008.
- **Aichouni, M**, 'Strategic Planning: A Strategy for Performance and Quality Improvement of the Training Process at Technical Colleges' Hail College of Technology, 25, November, 2008.
- **M. Aichouni**, 'e-Learning – From Concepts to Practice in Engineering Education', Hail College of Technology, Mechanical technology Department, Nov, 8, 2008.
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