RESUME (Curriculum Vitae)

PERSONAL

	First	Middle	Family
Name:	Mohamed	El-sayed	Ali

Nationality: Egyptian Date of birth: 16-2-1955

Work address: King Saud University, Mech. Eng. Dept.,

P. O. Box 800, Riyadh 11421, Saudi Arabia.

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Rank: Professor, Martial status: Married, four children.

EDUCATIONAL

September 1984-December 1988 Ph.D. Mech. Eng., Department of Mechanical Engineering (Thermal Sciences), University of Colorado, Boulder, CO. USA; GPA: 3.74/4.0

December 1982- May 1984 MS Mech. Eng. (Thermal Sciences), University of Colorado, Boulder.

September 1973-May 1978 BS Mechanical Power Engineering, Helwan University, Cairo, Egypt.

CAREER AND RESEARCH INTERESTS:

Teaching and Research in Thermal Fluid Sciences, area of Heat Transfer, Fluid Mechanics, Stability of Fluids, and Thermodynamics. The research field of interest includes: experimental, numerical and semi-analytical in the area of natural and forced convection heat transfer and nanofluids heat transfer.

COURSES TAUGHT:

Twenty three years of teaching experiences where the following courses were taught: Heat Transfer, Thermodynamics I and II, Fluid Mechanics II, Internal Combustion Engines, Engineering Mechanics (Statics), Daynamics and Design of Thermal-Fluid Systems, Advanced Heat Transfer, Advanced Thermodynamics, Advanced Fluid Mechanics.

SUPERVISED MASTER THESES

1- The effect of using Al_2O_3-water based nanofluid as a coolant in vehicles radiator. (2012)
2- Experimental investigation of natural convection heat transfer in cylindrical cavity using nanofluids. (2011)
3- The effect of variable viscosity on laminar mixed convection heat transfer along a power law moving vertical plate. (2010)
4- Laminar mixed convection over continuously moving surface with suction or injection. (1998)

EMPLOYMENT AND TEACHING EXPERIENCE HISTORY:

23- 07- 2009: 19-08- 2009	Visiting Prof., U. of Colorado, Boulder, Co, USA.
19- 08- 2009: 19- 09- 2009	Visiting Prof., Ohio State U., Columbus, OH., USA
22-10-2005: Now	Professor, King Saud University (Saudi Arabia).
5-11-1995: 21-10-2005	Associate Prof., King Saud Un., Saudi Arabia.
28-6-2000: 8-8-2000	Visiting Prof., Northwestern University, IL, USA
1-7-1999: 22-8-1999	Visiting Prof., University of Colorado, CO., USA
29.09.1992 - 04.11.1995	Assistant Prof., King Saud Un., Saudi Arabia.
13.08.1991 - 28.09.1992	Adjunct Prof., University of Colorado, Co. USA.
13.03.1989 - 12.08.1991	Assistant Prof., Helwan University, Cairo Egypt.
01.06.1988 - 22.12.1988	Research Assistant, University of Colorado, USA.
06.01.1986 - 22.12.1988	Teaching Assistant, University of Colorado, USA.
28.08.1978 - 06.06.1982	Instructor, Helwan University, Cairo, Egypt.

HONORS and AWARDS:

- Member of the Board of Directors of the Faculty of Engineering at King Saud University Research Center, 30-10- 2014- Now.
- TechConnect Innovation Award for the invention entitled “New Natural Insulating Material” by the TechConnect World Innovation Summit & Showcase, June 15- 18, 2014, Washington, DC, USA.

- Editor of King Saud University Journal (Engineering Sciences),

  2012- Now
- Second Prize winner of the Research Excellence Award for the year 2013-2014 by The College of Engineering, King Saud University.
- 41st Geneva International Exhibition of Inventions 2013 Bronze Medal for "Development of new beta bread by partial substitution of banana peel flour with wheat flour" April 10-14, 2013, Geneva, Switzerland.
- King Saud University Gold Medal and appreciation certificate for inventing and discovering a new insulating material, 2012.
- 40th Geneva International Exhibition of Inventions 2012 Gold Medal for "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia" April 18-22, 2012, Geneva, Switzerland.
- British Invention Show 2011 Gold Medal for "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia" October 19-22, 2011, London, UK.
- Best research award for the year 2010-2011 by the Deanship of Scientific Research and the Research Center of the College of Engineering, King Saud University.
- Distinguished Research and Publication Award for the year 2009-2010 by the Deanship of Scientific Research and the Research Center of the College of Engineering, King Saud University.
- Souvenir Medal for the best paper presented at the 5th international Engineering conference held on March 27-31, 2006 by Faculty of Engineering, Mansoura University, Mansoura-Sharm El-Shekh, Egypt.
- Condensed curriculum vitae included in the 1995, 12*th.* Edition issue of MARQUIS "Who's Who in the World".
- Egyptian Scholarship to study in USA for Ph.D. degree (1984-1988).
- Sigma Xi Grant-in-Aid for graduate research 1986 USA.
- AMIDEAST Peace Fellowship to study in USA for MS degree (1982-1984)
- Helwan University stipend for being one of the top-ranking students during the B. S. program 1974 and 1977.

INVITATIONS AND PATENTS

- Session Chair at the International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Toronto, Canada, 20- 21 June, 2013

- PCT filed at both USA and WIPO offices in two different languages, PCT/IB 2013/000737 entitled "PRODUCTION OF NOVEL BETA BREAD BY PARTIAL SUBSTITUTION OF WHEAT FLOUR WITH BANANA-PEEL FLOUR". **'WO2014167372'**, **http://patentscope.wipo.int/search/en/search.jsf, October 17, 2014.**

- Patent filed at the USA Patent Office # 13364309 entitled "Natural fiber insulation material and method for making the same"**. http://www.google.com/patents/US20130193365, February 1, 2013, Published on August 2013.**
- Session Chair at the the 3rd International Conference on Nanotechnology: Fundamentals and Applications, Montreal, Quebec, Canada, 7- 9 August, 2012
- Session Co-Chair at the7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19- 21 July 2010, Antalya, Turkey.

INTERNATIONAL MASS MEDIA RECOGNITION

1- **Mohamed Ali,** "Early-stage technologies attract corporate interest", an article wrote by Jermey Matthews about my new insulating material exhibited at the TechConnect conference and exhibition held in Washington DC, 15- 18 June, 2014, *Physics Today Magazine*, issue: July 2014, Publishers > AIP Publishing > Physics Today > Daily edition > Enterprise > Post, http://scitation.aip.org/content/aip/magazine/physicstoday/news/10.1063/PT.5.5021.

2- **Mohamed Ali**, "New insulating material from invasive 'Apple of Sodom',", *ResearchSEA- Asia Research News*, 13 Sterndale Close, Girton Cambridge CB3 0PR, United Kingdom, Technology section, pp. 40, 2012.

PAPERS PUBLISHED IN REFERRED JOURNALS

1- A. Hajipour, M.M. Rashidi, **M. Ali**, Z. Yang, O. Anwar Bég "Thermodynamic Analysis and Comparison of the Air-Standard Atkinson and Dual-Atkinson Cycles with Heat Loss, Friction and Variable Specific Heats of Working Fluid," AJSE (Arabian Journal for Science and Engineering) online, DOI: 10.1007/s13369-015-1903-7

2- M.M. Rashidi, A. Basiri Parsa, L. Shamekhi, F. Nazari and **M. Ali**, "Exergetic optimisation of a multi-stage compression transcritical refrigeration cycle" In press, *Int. J. Exergy*, *Vol. x, No. x, xxxx*

3- **Mohamed Ali** and Eugen Magyari, "Mixed convection boundary layer flows induced by continuous vertical surfaces stretched with uniform or linear skin friction boundary conditions", Rev. Téc. Ing. Univ. Zulia. Vol. 38, Nº 2, 80 - 89, 2015, Revista Tecnica De La Facultad De Ingenieria Universidad Del Zulia (Technical Journal of the Faculty of Engineering, TJFE), ISI Impact factor 0.047. ISSN: 0254-0770.

4- **Mohamed Ali** and Abdullah Alabdulkarem, "Laminar mixed convection boundary layer flow induced by a permeable surface stretched with prescribed skin friction boundary conditions", Advances in Mechanical Engineering, 2015, Vol. 7(9), 1–11, The Author(s) 2015, DOI: 10.1177/1687814015605747, ISI Impact factor: 0.575

5- **Mohamed Ali**, "Microstructure, Thermal Analysis and Acoustic characteristics of Calotropis procera (Apple of Sodom) fibers", Journal of Natural Fibers on 31-12-2013. 2014 Impact Factor: 0.460, Ranking: 15/22 (Materials Science, Textiles) ©2014 Thomson Reuters, 2013 Journal Citation Reports®, **ISSN:** 1544-0478 (Print), 1544-046X (Online), **2015, Article DOI: 10.1080/15440478.2015.1029198, In press.**
(ID: 1029198 DOI:10.1080/15440478.2015.1029198)

6- **Ali, M**., Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Experimental study for air cooling using a membrane covered tray", *Journal of Porous media*, volume 18, Issue 9, pp. 834-842, **2015**, Impact Factor: 0.867, ISSN Print: 1091-028X, ISSN Online: 1934-0508.

7- F. Garoosi, L. Jahanshaloo, M.M. Rashidi, A. Badakhsh, **M. ALi**, "Numerical simulation of natural convection of the nanofluid in heat exchangers using a Buongiorno model" *Applied Mathematics and Computation*, Volume 254, 1 March **2015**, Pages 183–203. ISI Impact factor 1.600, http://www.sciencedirect.com/science/article/pii/S0096300314017779

8- M. M. Rashidi, **M. Ali**, and B. Rostami, "Heat and mass transfer for MHD visco-elastic fluid flow over a vertical stretching sheet with considering Soret and Dufour effects", *Mathematical Problems in Engineering*, Special issue: Modeling and Analysis in Thermodynamics and Heat Transfer (MTHT) Volume 2015, Article ID 861065, 12 pages, http://dx.doi.org/10.1155/2015/861065, ISI Impact factor 1.082.

9- Hamad MAA, Mohammad Ferdows, and **Mohamed Ali**, "Lie group analysis on Brownian motion and thermophoresis effect on free convective boundary-layer flow on a vertical cylinder embedded in a nanofluid-saturated porous medium", *Journal of Applied Mathematics*, Special issue: Computational Science in smart grids and energy systems (SGRID), Volume 2015(2015), Article ID 741352, 6 pages, http://dx.doi.org/10.1155/2015/741352 . ISI Impact factor 0.720

10- **Mohamed Ali**, Abd-Elrahman El-leathy and Ziad Al-Sofyany, "The effect of nanofluid concentration on the cooling system of a vehicles radiator", *Advances in Mechanical Engineering*, Volume **2014**, Article ID 962510, 13 pages, http://dx.doi.org/10.1155/2014/962510, ISI Impact factor 0.500.

11- M.M. Rashidi, A. Hajipour, A. Mousapour, **M. Ali**, Gongnan Xie, N. Freidoonimehr, "First and second-law efficiency analyses and ANN prediction of a Diesel cycle with internal irreversibility, variable specific heats, heat loss and friction considerations", *Advances in Mechanical Engineering*, Volume 2014, Article ID 359872, 16 pages, **2014**, http://dx.doi.org/10.1155/2014/359872, ISI Impact factor 0.500.

12- Zeitoun, O., **Ali, M.**, Al-Ansary, H. and Nuhait, A., "Ceramic tubes membrane technology as a new humidification technique for gas turbine inlet air cooling", *International Journal of Thermal Sciences*, vol. 80, June, pp. 1-10, **2014**, ISI, Impact factor: 2.47

13- M.M. Rashidi, **M. Ali**, N. Freidoonimehr, B. Rostami, M. Anwar Hossain, "Mixed Convective Heat Transfer for MHD Visco-Elastic Fluid Flow over a Porous Wedge with Thermal Radiation", *Advances in Mechanical Engineering*, Volume 2014 (**2014**), Article ID 735939, 10 pages, http://dx.doi.org/10.1155/**2014**/735939, ISI, Impact factor: 1.061

14- M.M. Rashidi, A. Aghagoli1, **M. Ali**, "Thermodynamic analysis of a steam power plant with double reheat and feed water heaters", *Advances in Mechanical Engineering*, Volume 2014, Article ID 940818, 11 pages, 2014, http://dx.doi.org/10.1155/**2014**/940818, ISI Impact factor: 1.o61

15- **Ali, M**., Zeitoun, O., Al-Ansary, H. and Nuhait, A., "Humidification technique using new modified MiniModule membrane contactors for air cooling", Advances in Mechanical Engineering, vol. 2013, Article ID 174016, 11 pages, **2013**. doi:10.1155/2013/174016. ISI, Impact factor: 1.061

16- Hany A. Al-Ansary, Jamel A. Orfi and **Mohamed E. Ali**, "Impact of the Use of a Hybrid Turbine Inlet Air Cooling System in Arid Climates", Energy Conversion and Management, 75, pp.214-223, **2013**. ISI, Impact factor: 2.775

17- **Ali, M**., 'Mixed Convection Boundary Layer Flows Induced by a Permeable Continuous Surface Stretched with Prescribed Skin Friction', World Academy of Science, Engineering and Technology, International Science Index 78, 7(6), 631 – 636, **2013**.

18- Mohammad M. Rashidi, **Mohamed Ali**, Navid Freidooni Mehr, and Foad Nazari, "Parametric Analysis and Optimization of Entropy Generation in Unsteady MHD Flow over a Stretching Rotating Disk using Artificial Neural Network and Particle Swarm Optimization Algorithm" ENERGY, Volume **55**, 15 June, Pages 497-510, **2013**, ISI, Impact factor: 3.487.

19- **Mohamed Ali** and Khaled Al-Salem, "The effect of suction or injection on the boundary layer flows induced by continuous surfaces stretched with prescribed skin friction," *Meccanica*, **48**, 7, pp. 1587- 1597, **2013**. ISI, Impact factor: 1.774

20- O. Zeitoun, **Mohamed Ali** and H. Al-Ansary, "The effect of particle concentration on cooling of a circular horizontal surface using nanofluid jets", *Nanoscale and Microscale Thermophysical Engineering*, vol. 17, Issue 2, pp. 154-171, **2013**. ISI, Impact factor: 1.056,

21- **Mohamed Ali**, O. Zeitoun and Salem Almotairi, "Natural convection heat transfer inside vertical circular enclosure filled with water-based Al_2O_3 nanofluids", *Int. Journal of Thermal Sciences* , **Vol.** 63, January 2013, PP 115-124, **2013.** ISI, Impact factor: 2.142, **Extracted from M. SC.**

22- **Mohamed Ali,** O. Zeitoun, Salem Almotairi and Hany Al-Ansary, "The effect of Alumina-water nanofluid on natural convection heat transfer inside vertical circular enclosure heated from above", *Heat Transfer Engineering*, **Vol**. 34, issue 15, pp. 1289- 1299,**2013**. ISI, Impact factor: 0.892, **Extracted from M. SC.**

23- O. Zeitoun and **Mohamed Ali,** "Nanofluid impingement jet heat transfer", *Nanoscale Research Letters*, **7**:139, **2012**- ISI, Impact factor: 2.56.

24- **Mohamed Ali** and O. Zeitoun, "Discovering and manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia" *J. of Engineered Fibers and Fabrics*, Volume 7, Issue 4, pp. 88-94, **2012**.- ISI, Impact factor: 0.889.

25- H. Al-Ansary, O. Zeitoun and **Mohamed Ali**, "Numerical Modeling of Natural Convection Heat Transfer Around Horizontal Triangular Cylinders." *Numerical Heat Transfer, Part A Applications*, vol. 61, Issue 3, pp 201-219, **2012**.- ISI, Impact factor: 1.183

26- S. Nadeem, Abdul Rehman, **Mohamed E. Ali**, "The boundary layer flow and heat transfer of a nanofluid over a vertical slender cylinder", Proceedings of the Institution of Mechanical Engineers, Part N: *Journal of Nanoengineering and Nanosystems*, December **2012**, 226(4), pp.165- 173.

27- R. Ellahi, Arshad Riaz, S. Nadeem and **M. Ali**, "Peristaltic flow of Carreau fluid in a rectangular duct through a porous medium", journal of *Mathematical Problems in Engineering*, vol. 2012, Article ID 329639, 24 pages, **2012**. doi:10.1155/2012/329639, ISI, Impact factor: 0.777

28- Noreen Sher Akbar, S. Nadeem and **Mohamed Ali** "Influence of Heat and chemical reactions on hyperbolic tangent fluid model for blood flow through a tapered artery", *Heat Transfer Research* **43**(1), 69–94 (**2012**). ISI, Impact factor: 0.078.

29- Sohail Nadeem, Sadaf Ashiq and **Mohamed Ali**, "Williamson Fluid Model for the Peristaltic Flow of Chyme in Small Intestine," journal of *Mathematical Problems in Engineering*, Volume 2012, Article ID 479087, 18 pages, **2012**- ISI, Impact factor: 0.689

30- S. Nadeem, Noreen Sher Akbar and **Mohamed Ali**, "Endoscopic effects on the peristaltic flow of an Eyring-Powell fluid", *Meccanica*, Vol. 47, No. 3, pp. 687-697, **2012**.- ISI, Impact factor: 1.056.

31- **Mohamed Ali**, O. Zeitoun and A. Nuhait "Forced convection heat transfer over horizontal triangular cylinder in cross flow." *International Journal of Thermal Sciences*, vol. **50**, No. 1, pp 106- 114, **2011**.- ISI, Impact factor: 1.667.

32- Zeitoun, **Mohamed Ali**, and A. Nuhait, "Convective heat transfer around a triangular cylinder in an air cross flow", *International Journal of Thermal Sciences*, Vol. 50,No. 9, pp. 1685- 1697, **2011**.- ISI, Impact factor: 1.667.

33- **Mohamed E. Ali** and Hany Al-Ansary, "General correlations for laminar and transition natural convection heat transfer from vertical triangular cylinders in air," *Experimental Heat Transfer*, vol. 24, Issue 2, pp. 133-150, **2011**.- ISI, Impact factor: 0.450.

34- Patrick D. Weidman and **Mohamed E. Ali,** "Aligned and nonaligned radial stagnation flow on a stretching cylinder", *Europen Journal of*

Mechanics- B/Fluids, vol. **30**, No. 1, pp 120- 128, **2011**.- ISI, Impact factor: 1.068.

35- S. Nadeem, Noreen Sher Akbar, Ahmet Yildirm, Anwar Hussain and **Mohamed Ali**, "Series solutions for the stagnation flow of a maxwell fluid over a shrinking sheet", *Composites: Mechanics, Computations, An International Journal*, Vol. 2, No. 4, pp1-15, **2011**.

36- Noreen Sher Akbar, S. Nadeem and **Mohamed Ali**, "Jeffry fluid model for blood flow through a tapered artery with a stenosis", *Journal of Mechanics in Medicine and Biology*, Vol. 11, No. 3, pp. 529- 545, **2011**.- ISI, Impact factor: 0.493.

37- Colorado-Garrido D., **M. E. Ali**, Garcia-Valladares O. and Hernandez J. A., "Heat transfer using a correlation for natural convection from vertical helical coils in oil and glycerol/water solution", *Energy*, vol. 36, No. 2, pp. 854-863, **2011**.- ISI, Impact factor: 3.597.

38- O. Zeitoun, **Mohamed Ali**, and A. Nuhait, "Numerical study of forced convection around heated horizontal triangular ducts", *Advanced Computational Methods and Experiments in Heat Transfer XI, WIT Transactions on Engineering Sciences*, vol. 68, pp. 201-212, **2010**.

39- **Mohamed E. Ali** and Hany Al-Ansary, "Experimental Investigations on Natural Convection Heat Transfer Around Horizontal Triangular Ducts," *Heat Transfer Engineering*, Vol. 31, No. 5, pp. 350- 361, **2010**.- ISI, Impact factor: 0.937

40- **Mohamed Ali**, "Natural Convection Heat Transfer Along Vertical Rectangular Ducts", *Heat and Mass Transfer*, vol. 46, No. 2, pp. 255-266, **2009**.**http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s00231-009-0561-2**.- ISI, Impact factor: 0.673

41- **Mohamed E. Ali** and O. Zeitoun, "Nanofluids forced convection heat transfer inside circular tubes" *Int. J. Nanoparticles*, Vol. 2, Nos. 1/2/3/4/5/6, pp. 164- 172, **2009**.

42- O. Zeitoun and **Mohamed E. Ali**, "Nanofluids natural convection heat transfer in horizontal annulus" *Int. J. Nanoparticles*, Vol. 2, Nos. 1/2/3/4/5/6, pp. 173- 181, **2009**.

43- Suhil Kiwan **and Mohamed E. Ali**, "Near Slit Effects on the Flow and Heat Transfer from a Stretching Plate in a Porous Media," Numerical Heat Transfer, Part A, Applications, vol. 54, No. 1, pp. 93-108, **2008**.- ISI, Impact factor: 1.183

44- **Mohamed E. Ali**, "The effect of lateral mass flux on the natural convection boundary layers induced by a heated vertical plate embedded in a saturated porous medium with internal heat generation', *Int. J. of Thermal science*, Vol. **46**, No. 2, pp 157-163, **2007**.- ISI, Impact factor: 1.667

45- **Mohamed E. Ali** and E. Magyari " Unsteady Fluid and Heat Flow Induced by a Submerged Stretching Surface while its Steady Motion is Slowed Down Gradually", *Int. J. Heat and Mass Transfer*, Vol. **50**,pp 188-195, **2007**.- ISI, Impact factor: 1.899

46- **Mohamed E. Ali**, "Natural Convection Heat Transfer from Horizontal Rectangular Ducts," *ASME, J. of Heat Transfer*, Vol. **129**, No. 9, PP. 1195-1202, **2007**.- ISI, Impact factor: 0.942

47- **Mohamed E. Ali**, "The effect of variable viscosity on mixed convection heat transfer along a vertical moving surface", *Int. J. of Thermal Science*, Vol. **45**, No. 1, PP. 60-69, **2006.**- ISI, Impact factor: 1.667

48- **Mohamed E. Ali**, "Natural convection heat transfer from vertical helical coils in oil" *Heat Transfer Engineering- An International Journal*,vol. 27, No. 3, pp. 79- 85, **2006.** - ISI, Impact factor: 0.937

49- O. Zeitoun and **Mohamed Ali**, "Numerical investigation of natural convection around isothermal horizontal rectangular ducts", *Numerical Heat Transfer, Part A: Applications.*, Vol. **50**. , pp. 189-204, **2006**.- ISI, Impact factor: 1.183

50- **Mohamed E. Ali** and Geoffrey B. McFadden, "Linear stability of cylindrical Couette Flow in the convection regime", *Physics of Fluids*, vol. **17**, 054112, No. 5, pp. 1-11, **2005**.- ISI, Impact factor: 1.722

51- O. Zeitoun and **Mohamed Ali**, "Natural convection heat transfer from isothermal horizontal rectangular ducts", *Alexandria Engineering Journal*, Vol. **44**, No. 5, pp. 695-704, **2005**.-

52- **Mohamed E. Ali**, "The buoyancy effects on the boundary layers induced by continuous surfaces stretched with rapidly decreasing velocities" *Heat and Mass Transfer*, vol. **40**, No. 3-4, pp. 285-291, **2004**.- ISI, Impact factor: 0.673

53- **Mohamed E. Ali**, "Free convection heat transfer from the outer surface of vertically oriented helical coils in Glycerol-Water solution" *Heat and Mass Transfer*, vol. **40**, No. 8, pp. 615-620, **2004.**- ISI, Impact factor: 0.673

54- **Mohamed E. Ali**, Deepanjan Mitra, John A. Schwille, and Richard M. Lueptow, "Hydrodynamic stability of a suspension in cylindrical Couette flow," *Physics of Fluids*, Vol. **14**, No. 3, PP 1236-1243, **2002**.- ISI, Impact factor: 1.722, **Extracted from M. SC.**

55- **Mohamed E. Ali** and Fahd Al-Yousef, "Laminar mixed convection boundary layers induced by a linearly stretching permeable surface" *Int. J. Heat and Mass Transfer*,vol. **45**, issue 21, pp. 4241-4250, **2002**.- ISI, Impact factor: 1.899, **Extracted from M. SC.**

56- E. Magyari, **M. E. Ali**, and B. Keller "Heat and mass transfer characteristics of the self-similar boundary-layer flows induced by continuous surfaces stretched with rapidly decreasing velocities*," Heat and Mass Transfer*, vol. **38**, issue (1-2), pp. 65-74, **2001**.- ISI, Impact factor: 0.673

57- Sami Al-Sanea and **Mohamed E. Ali**, "The effect of extrusion slit on the flow and heat transfer characteristics from a continuously moving material with suction or injection," *Int. J. of Heat and Fluid Flow*, Vol. **21**, No. 1, pp. 84-91, **2000**.- ISI, Impact factor: 1.802

58- **Mohamed E. Ali**, "Boundary layer flow characteristics of a stretched surface with suction or injection," *J. of King Abdulaziz* University, Engineering Sciences, **Special Issue**, pp. 235-243 (1420 A. H./ **1999** A. D.)

59- **Mohamed E. Ali**, "Laminar natural convection from a constant heat flux helical coiled tubes," *Int. J. of Heat and Mass Transfer*, vol. **41**, No. 14, pp. 2175-2182, **1998**.- ISI, Impact factor: 1.899

60- **Mohamed E. Ali**, and Fahd Al-Yousef, "Laminar mixed convection from a continuously moving vertical surface with suction or injection", *Heat and Mass Transfer*, Vol. **33**, No. 4, pp. 301-306, **1998**.- ISI, Impact factor: 0.673, **Extracted from M. SC.**

61- **Mohamed E. Ali**, "The effect of suction or injection on the laminar boundary layer development over a stretched surface," *J. of King Saud University Engineering Sciences*, Vol. **8**, pp. 43-58, **1996**.

62- **Mohamed E. Ali**, "On thermal boundary layer on a power-law stretched surface with suction or injection," *Int. J. of Heat and Fluid Flow*, Vol. **16**, issue 4, pp. 280-290, **1995**.- ISI, Impact factor: 1.802

63- **Mohamed E. Ali**, "Experimental investigation of natural convection from vertical helical coiled tubes," *Int. J. Heat Mass Transfer*, Vol. **37**, No. 4, pp. 665-671, **1994**.- ISI, Impact factor: 1.899

64- **Mohamed E. Ali**, "Heat transfer characteristics of a continuous stretching surface," *Warme- und Stoffubertragung*, Vol. **29**, pp. 227-234, **1994**.- ISI, Impact factor: 0.673

65- **Mohamed E. Ali** and P. D. Weidman, "On the linear stability of cellular spiral Couette flow," *Phys. Fluids A*, Vol. **5**, pp. 1188-1200, **1993**.- ISI, Impact factor: 1.722

66- **Mohamed Ali** and P. D. Weidman, "On the stability of circular Couette flow with radial heating," *J. Fluid Mech.*, Vol. **220**, pp. 53-84 **1990**.- ISI, Impact factor: 2.457, **Extracted from Ph. D.**

67- P. D. Weidman and **M. E. Ali**, "Stability of Taylor-Couette flow with radial heating," *Instabilities and Nonequilibrium Structures II*, E Tirapegui and D. Villarroel (eds.), pp. 255-268 (**1989**) by Kluwer Academic publishers, **Extracted from Ph. D.**

PAPERS PUBLISHED IN REFEREED CONFERENCE PROCEEDINGS

1- **Mohamed Ali**, Abdullah Nuhait & Redhwan Almuzaiqer, "Study of Free Convection Heat transfer from a Single Square Cylinder in a Cascade of Cylinders" Proceedings of International Conference on Science, Management, Engineering and Technology 2015 (ICSMET 2015), 18th & 19th of March, pp. 20- 25, 2015, Dubai, UAE.

2- **Mohamed Ali**, "New natural insulating material extracted from the Apple of Sodam fibers", Scientific forum Towards a Better Environmental

Future held at Shaqra University on 27-10-2014 (3-1-1436H) in Shaqra, Riyadh region, Saudi Arabia.

3- **Ali, M**., "New Natural Insulating Material", TechConnect World Innovation Conference & Expo., Washington, DC, USA, June 15- 18, 2014.

4- **Ali, M**., Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Numerical Simulation of GE 7001 EA Gas Turbine Using Experimental Data for Compressor Inlet Air Cooling", Proceedings of the 10th International Conference on Heat transfer, Fluid mechanics and Thermodynamics, Orlando, Florida, USA, 14- 16 July, 2014.

5- **Ali, M.**, Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Experimental Study for air cooling using membrane covered tray", 5th International Conference on Porous Media and Their Applications in Science, Engineering and Industry, June 22- 27, 2014, Kona, Hawaii, Eds, ECI Symposium Series, Volume (2014). http://dc.engconfintl.org/porous_media_V/49

6- **M. Ali**, "Mixed convection boundary layer flows induced by a permeable continuous surface stretched with prescribed skin friction", Proceedings of the International Conference on Heat transfer, Fluid mechanics and Thermodynamics, Toronto, Canada, 20- 21 June, 2013.

7- **M. Ali**, A. El-leathay and Z. Al-Sofyany, "The effect of using Al_2O_3-water nanofluid as a coolant in vehicles radiator", Proceedings of the 3rd International Conference on Nanotechnology: Fundamentals and Applications, paper # 184, Montreal, Quebec, Canada, 7- 9 August, 2012.

8- **Ali, M.**, Zeitoun, O., Al-Ansary, H., and Nuhait, A., "Air cooling using a matrix of ceramic tubes", Fourth International Conference on Porous Media and its Applications in Science, Engineering and Industry, June 17-22, volume 1453, pp. 307-311, 2012, Potsdam, Germany.

9- **Mohamed Ali** and Khaled Al-Salem, "Boundary layer flows induced by permeable continuous surface stretched with prescribed skin friction" 2nd International Conference on Fluid Mechanics and Heat and Mass Transfer, Corfu Island, Greece, July 14-16, 2011.

10- **Mohamed Ali** and Obida Zeitoun, "Thermal conductivity of a new natural insulating material extracted from some plant grows up in Saudi Arabia" International Conference on innovative Technologies, IN-TECH 2011, Bratislava, Slovakia, September 1-3, 2011.

11- Patrick D. Weidman and **Mohamed E. Ali,** "Symmetric and asymmetric radial stagnation flows on a stretching cylinder", Euromech Fluid Mechanics Conference 8, September 13- 16, 2010, Altes Koenigliches Kurhaus, Bad Reichenhall, Germany.

12- **Mohamed Ali**, O. Zeitoun and A. Nuhait "Forced convection heat transfer over horizontal triangular cylinder in cross flow." Proceedings of the 7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19- 21 July 2010, Antalya, Turkey.

13- **Mohamed E. Ali** and Hany Al-Ansary "Natural Convection Heat Transfer from Vertical Triangular Ducts" Proceedings of 2009 ASME Summer Heat Transfer Conference (HT09- 2009), San Francisco, California, USA, July 19-23, 2009. Paper # HT2009-88607(vol. 2, pp. 421-428, 2009).

14- O. Zeitoun, **Mohamed Ali** and A. Nuhait "Numerical study of forced convection around heated horizontal triangular ducts" Fourteenth International Conference on Computational Modeling and Experimental Measurements, 10-12 June 2009, Algarve, Portugal.

15- **Mohamed Ali** and O. Zeitoun, "Nanofluids Forced Convection Heat Transfer inside Circular Tubes" Proceedings of the International Conference on Nanotechnology (ICON008), June 17-19, 2008, Jeddah, Saudi Arabia.

16- O. Zeitoun and **Mohamed Ali**, "Nanofluids Natural Convection Heat Transfer in Horizontal Annulus" Proceedings of the International Conference on Nanotechnology (ICON008), June 17-19, 2008, Jeddah, Saudi Arabia.

17- **Mohamed E. Ali** "Natural Convection Heat Transfer from Vertical Square Ducts" Proceedings of 2008 ASME Summer Heat Transfer Conference, Jacksonville, FL, USA, August 10-14, 2008. Paper # HT2008-56413, (vol. 1, pp. 293-300).

18- **Mohamed E. Ali** and Hany Al-Ansary, "Empirical Correlations for Natural Convection Heat Transfer from Horizontal Triangular Ducts," 6th international Engineering Conference, Mansoura/Sharm El-sheikh, March 18-23, 2008, Egypt.

19- **Mohamed E. Ali**, "Free Convection Investigation on Heat Transfer from Horizontal Rectangular and Square Ducts", Al-Azhar Engineering 9th International Conference (AEIC 2007), Cairo, Egypt, April 12-14, 2007.

20- Suhil Kiwan and **Mohamed E. Ali**, "Flow and Heat Transfer Characteristics Induced by a Stretching Surface in a Porous Media", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007.

21- **Mohamed E. Ali** and Hany Alansary, "Natural Convection Heat Transfer from Horizontal Triangular Ducts ", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007.

22- Hany Alansary, O. Zeitoun and **Mohamed E. Ali** "Numerical Study of Natural Convection from a Uniformly Heated Horizontal Triangular Ducts ", 7th Saudi Engineering Conference (SEC7), Riyadh, Saudi Arabia, December 2-5, 2007**.**

23- **Mohamed E. Ali**, "Experimental Investigation on Heat Transfer Coefficient from Horizontal Rectangular Ducts by free convection," The 4th Saudi Technical Conference and exhibition," Riyadh, Saudi Arabia, Vol. **III**, pp. 19-27, 2-6/12/2006.

24- **Mohamed E. Ali**, "The effect of lateral mass flux on the natural convection boundary layers induced by a vertically heated plate embedded

in a saturated porous medium with internal heat generation' 5th International Engineering Conference, Mansoura-Sharm El-Shekh, March 27-31, 2006.

25- **Mohamed E. Ali**, "The effect of variable viscosity on flow and heat transfer of mixed convection induced by a continuous moving surface" *Proceedings of Fourth international Engineering Conference (**4th IEC**)*, 20-22 April, 2004, Mansoura University, Sharm El-Shiekh, Egypt.

26- **Mohamed E. Ali** and Geoffrey B. McFadden, "Linear stability of cylindrical Couette Flow using a convection regime base flow" Proceedings of *International Mechanical Engineering Conference (IMEC2004)*, Kuwait Society of Engineers, Part **1**, Paper # IMEC04-1001, pp. 1-19, December 5-8, 2004, Kuwait.

27- **Mohamed E. Ali**, "The effect of variable viscosity on a mixed convection boundary layer induced in manufacturing of extruded vertical materials" *Proceeding of the 2nd IIEC-2004*, December 19-21, 2004, Riyadh, Kingdom of Saudi Arabia.

28- **M. E. Ali**, "Natural convection heat transfer from vertical helical coils in high Prandtl number fluid" *Proceedings of Al-Azhar Engineering 7th International Conference (**AEIC**)*, **CD code M04/05**, 7-10 April, 2003, Al-Azhar University, Cairo, Egypt.

29- **Mohamed E. Ali**, Deepanjan Mitra, and Richard M. Lueptow, "Stability of a Suspension in Taylor Couette Flow" Proceedings of the Seventh International Conference of Fluid Dynamics and Propulsion (ICFDP7), December 19-21, (2001), Cairo, Egypt, Paper No. ICFDP7-2001056.

30- **Mohamed E. Ali** and Fahd Al-Yousef, "Laminar mixed convection boundary layers induced by a linearly stretching permeable surface" Proceedings of the Seventh International Conference of Fluid Dynamics and Propulsion (ICFDP7), December 19-21, (2001), Cairo, Egypt, ICFDP7-2001014.

31- **Mohamed E. Ali**, "The buoyancy effects on the boundary layers induced by continuous surfaces stretched with rapidly decreasing velocities" *Proceedings of the 6th Saudi Engineering Conference*,vol. **5**, pp. 591-605, 14-17 December, 2002, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia**.**

32- **Mohamed E. Ali**, "Heat and mass transfer characteristics of continuously moving surfaces" *Trends in Heat, Mass & Momentum Transfer,*Vol. **6**, pp. 135-140, (2000), India. (Invited review article).

33- **Mohamed E. Ali** and Fahd A-Yousef, " Heat transfer and flow field on an extruded vertical material with suction or blowing*", The Fifth Saudi Engineering Conference*, vol. **4**, pp. 341-351, March 1-4, 1999, Makkah Al-Mukarramah, Saudi Arabia.

34- **Mohamed E. Ali**, "Natural convection from vertical helical coiled tubes in air," *Proceedings of the 33rd National Heat Transfer Conference,* Aug. 15-17, 1999, Albuquerque, New Mexico, USA, Paper No. **NHTC 99-114**.

35- **Mohamed E. Ali** and Fahd Al-Yousef, "Heat transfer and flow field on an extruded vertical material," *The 10th International Conference on Mechanical Power Engineering*, vol. **1**, pp. 207-219, Dec., 16-18, 1997, Assiut, Egypt.

36- **Mohamed E. Ali**, "Heat transfer characteristics of a stretched surface with suction or injection," *Fifth International Conference of Fluid Mechanics*, Vol. **III**, pp. 959-971, (1995), Cairo, Egypt.

37- **Mohamed E. Ali**, "Boundary layer flow characteristics of a stretched surface with suction or injection," *The Fourth Saudi Engineering Conference*, Vol. **IV**, pp385-394, (1995), Jeddah, Saudi Arabia.

38- **Mohamed E. Ali** and Patrick D. Weidman, "Symmetry and instability of radially-heated circular Couette flow in a tall vertical annulus," 3rd. *International Congress of Fluid Mechanics*, Vol. **I**, Sec. 5, pp. 271-283, (1990), Cairo, Egypt.

CONFERENCE PRESENTATIONS

1- "Manufacturing a new natural insulating material extracted from a plant grows up in Saudi Arabia", The 13th Gulf Industrialists Conference and International Exhibition, "Knowledge-Based Industries and New Technologies", January 17- 19, 2012, Riyadh, Saudi Arabia.

2- "Stability of a suspension in Taylor Couette flow," *53rd Annual Meeting, APS Division of Fluid Dynamics, 2000*, Washington, DC, USA.

3- "A linear stability analysis of cellular spiral Couette flow" *45th Annual meeting, APS Division of Fluid Dynamics, 1992*, Tallahassee, Florida, USA.

4- "The instability of Taylor-Couette flow with radial heating," *41st Annual Meeting, APS Division of Fluid Dynamics*, 1988, Buffalo, NY., USA.

5- "Stability of Taylor-Couette flow with radial heating," *40th Annual Meeting, APS Division of Fluid Dynamics*, 1987, Eugene, OR., USA.

6- "Preliminary results on the stability of Taylor-Couette flow with radial heating," *5th Taylor Vortex Flow Working Party*, 1987, Tempe, AZ., USA.

7- "Visualization of the stability of viscous flow between rotating cylinders with radial thermal gradient," *62nd SWARM Division Meeting of AAAS*, 1986, Boulder, CO, USA.

SOCIETY ACTIVITIES

Member: American Society of Mechanical Engineering.

American Physical Society.

Egyptian Engineering Syndicate.

Global Environmental Standards (GES)

SEMINARS PRESENTATIONS

1- University of Colorado, Mechanical Engineering Department, Special seminar, “Discovering a new natural insulating material extracted from Calotropis procera trees”, June 19, 2014, Boulder, Colorado, USA.

2- The City College of New York, Department of Mechanical Engineering, “Discovering a new natural insulating material extracted from Calotropis procera trees”, July 1st, 2014, New York, USA.

3- Mechanical Engineering Seminar, King Saud University, Riyadh, Saudi Arabia, 2008 entitled "New empirical correlations for natural convection heat transfer from rectangular and square ducts".

4- Mechanical Engineering Seminar, King Saud University, Riyadh, Saudi Arabia, 2004 entitled "Linear stability of cylindrical Couette flow in the convection regime".

5- Mechanical Engineering Seminar, King Saud University, Riyadh, Saudi Arabia, 2003entitled “Hydrodynamic stability of a suspension in cylindrical Couette flow".

6- Mechanical Engineering Seminar, Northwestern University, IL., USA, 2000 entitled "Hydrodynamic stability of a suspension in cylindrical Couette flow".

7- Mechanical Engineering Seminar, King Saud University, Riyadh, Saudi Arabia, 1995 "New correlations for natural convection from vertical helical coils".

8- Mechanical Engineering Seminar, King Saud University, Riyadh, Saudi Arabia, 1992 entitled "stability of Taylor Couette flow with radial heating".

COUNCILS

1. Member, Mechanical Engineering Department Council of King Saud University since the academic year 1992/1993.
2. Member, Mechanical Engineering Department Council of University of Colorado at Boulder, CO. USA through the 1*st.* semester of 1991/1992.
3. Member, Mechanical Engineering Department Council of Helwan University at Cairo, Egypt. Period: Fall 1989 to spring of 1990.

ADMINISTRATIVE POSITIONS

1- Coordinator, University Academic advisor for the freshmen students at the College of Engineering.

2- Member, University Workshop on “Distinguished Research and Publication Quality Awards.

3- Collaborative member, Committee, Center of Excellence Research in Engineering Materials (CEREM).

4- Member, Department Program Assess Committee for ABET.

5- Member, Department Strategic Plan Committee, 2005- present.

6- Coordinator, Thermal and Fluid Lab. Committee, 2005- present.

7- Coordinator, Student Academic Advisor Committee.

8- Coordinator, Conferences, Workshops and Short Courses Committee, 2004, present.

9- Coordinator, Social and Cultural Activities Committee, 1992- present.

10- Member, Faculty Members Promotion Committee, 2006- present

ENGINEERING CONSULTATIONS

1. Consultation for Pure Cycle Corporation on a two phase flow project at Golden, Colorado, USA from 1. 11. 1991 to 31. 3. 1992 while working as an adjunct professor at University of Colorado at Boulder, Colorado USA.

ACADEMIC AND PROFESSIONAL ACTIVITIES

1. Contribution to an eleven days intensive technical workshop on reciprocating pumps and compressors (theory, operation, and trouble shooting), Tripoli, Libya, Nov. 4-15, 1990. This workshop was organized by the Arab international Consultants (ARICON) Cairo, Egypt. This participation included the preparation of workshop notes and lectures.
2. Contribution to a five days intensive technical workshop on hydraulic pumps trouble shootings (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, May 17-21, 1997. This workshop was organized by the Saudi Center for Management and Technical Development (SADMTC) Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.
3. Contribution to a five days intensive technical workshop on positive displacement pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, December 29th, 2001 to January 2nd, 2002. This workshop was organized by the Saudi Engineering Committee, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.
4. Contribution to a five days intensive technical workshop on centrifugal pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, October 12-16, 2002. This workshop was organized by the Saudi Engineering Committee, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.

5. Contribution to a five days intensive technical workshop on pumps (theory, operation, and trouble shooting), Riyadh, Saudi Arabia, November 4-8, 2006. This workshop was organized by the Dallah Human Skills Training & Development, Riyadh, Saudi Arabia. This participation included the preparation of workshop notes and lectures.

REFEREED TECHNICAL PAPERS FOR:

1- ASME summer heat transfer conference 2008.
2- International Journal of Heat and Mass Transfer.
3- International Journal of Heat and Fluid Flow.
4- International Journal of Thermal Sciences.
5- ASME, Journal of Heat Transfer.
6- Applied Thermal Engineering.
7- Heat and Mass Transfer.
8- MECCANICA, International Journal of the Association of Theoretical & Applied Mechanics, AIMETA
9- Chemical Engineering Communications.
10- Al-Qassim University Journal for Engineering and Computer Sciences, Saudi Arabia.
11- The 4th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 1995.
12- The 5th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 1999.
13- The 6th Saudi Engineering Conference held in Jeddah, Saudi Arabia, 2002.
14- The 7th Saudi Engineering Conference held in Riyadh, Saudi Arabia, 2007.
15- Evaluation of many scientific proposals for King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.

RESEARCH PROJECTS

1. Obida Zeitoun, **Mohamed Ali,** Basharat Salim, and Fayçal Ben Yahya, "Partial Load Operation of a Turbine and Its Impact on the Useful Life of Hot Gas Path Components and Environment Pollution", supported by the Saudi Electricity Company, Project # RFP NO. SG512, (funded project, SR 710000.00), starts at September, 2014.

2. Obida Zeitoun, A. Nuhait, **Mohamed El-Sayed Ali**, and Hany Abdulrahman Alansary, “Nonconventional Desalination Using Freezing Technique”, Project # 13-WAT2084-02, supported by the The National Plan for Science,Technology and Innovation, (funded project, SR 1176000.00), 2014.
3. **Mohamed Ali**, Obida Zeitoun, H. Al-Ansary and A. Nuhait, "Performance improvement of gas turbine station in the Kingdom using membrane evaporative inlet air cooling" Project # 08-ENE220-2 supported by The National Plan for Science,Technology and Innovation, (funded project, SR 929000.00), 2012.

4. **Mohamed Ali** and Obida Zeitoun, "Extracting new insulating material from some plants in the Kingdom" Project # 08-ENE335-02 supported by The National Plan for Science,Technology and Innovation, (funded project, SR 590560.00), 2012.

5. **Mohamed Ali** and Obida Zeitoun, "Natural convection heat transfer using nanofluids in horizontal enclosure" Project # nano 54/1429 supported by King Abdullah Institute for Nanotechnology, (funded project, SR 257000.00), 2011.

6. Obida Zeitoun and **Mohamed Ali** and, "Experimental Investigation on cooling a circular horizontal surface using a nanofluid liquid jet" Project # nano 42/1429 supported by King Abdullah Institute for Nanotechnology, in progress, (funded project, SR 273000.00), 2011.

7. **Mohamed E. Ali** and Patrick D. Weidman, "Numerical study of symmetric and asymmetric radial stagnation flow on a horizontal stretching cylinder" Project number 43/431 supported by the Deanship of Scientific Research and College of Engineering Research Center at King Saud University, Saudi Arabia, 2011, (Funded project, SR 25650,00), 2010.

8. Haney Al-Ansary and **Mohamed Ali**, " Experimental study of steady state natural convection heat transfer from capped ends vertical triangular cross-section ducts in air" Project number 6/429 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2008 (funded project, SR 39700,00).

9. Abdullah Nuhit, **Mohamed Ali** and Obida Zeitoun, "Numerical modeling of forced convection heat transfer around triangular cross-section ducts in air" Project number 35/428 supported by Saudi Arabian Industrial Company (SABIC) and the College of Engineering Research Center at King Saud University, September 2007, (Funded project, SR 30400,00).

10. Abdullah Nuhit, **Mohamed Ali** and Obida Zeitoun, "Experimental study of steady state forced convection heat transfer from triangular metallic ducts in wind tunnel" Project number 17/428 supported by Saudi Arabian Industrial Company (SABIC) and the College of Engineering Research

Center at King Saud University, September 2007, (funded project, SR 30700,00).

11. **Mohamed E. Ali**, "Experimental study of steady state natural convection heat transfer from capped ends vertical rectangular and square cross-section ducts in air" Project number 50/428 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007, (Funded project, SR 30000,00).

12. **Mohamed E. Ali**, "Experimental study of steady state natural convection heat transfer from noncircular metallic ducts" Project number 33/426 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007 (funded project, SR 40000,00).

13. Haney Al-Ansary and **Mohamed Ali**, " Experimental study of steady state natural convection heat transfer from triangular metallic ducts" Project number 22/427 supported by the College of Engineering Research Center at King Saud University, Saudi Arabia, 2007 (funded project, SR 40000,00).

14. **Mohamed E. Ali**, "The effect of temperature dependent viscosity on mixed convection boundary layer induced over a moving surface" Project number 20/424 supported by the College of Engineering Research Center at King Saud University, Riyadh, Saudi Arabia, 2005 (funded project, SR 30000.00).

15. **Mohamed E. Ali,** "Linear stability analysis for particle suspension in Taylor-Couette flow" Report number 1/422 supported by the College of Engineering Research Center at King Saud University, Riyadh, Saudi Arabia, 2003, (SR 15000.00).

16. E. Magyari, **M. E. Ali** and B. Keller, "Boundary-Layer flows induced by continuous surfaces stretched with rapidly decreasing velocities" Report number 10/2000 published in Swiss Federal Institute of Technology Zurich, Switzerland.