

AbdelSalam Al-Sarkhi, Ph.D.

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EXPERIENCE:

Summer 2015	VISITING RESEARCH PROFESSOR , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
Summer 2013	VISITING SCHOLAR , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
March 2012- Present	PROFESSOR, FLUID MECHANICS LAB. DIRECTOR , Department of Mechanical Engineering, KFUPM, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
Summer 2012	VISITING SCHOLAR , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
Summer 2011	VISITING SCHOLAR , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
Summer 2010	VISITING RESEARCH PROFESSOR , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
2008-2012	ASSOCIATE PROFESSOR& FLUID MECHANICS LAB. DIRECTOR , Department of Mechanical Engineering, KFUPM, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
2007– 2008	SENIOR RESEARCH ASSOCIATE , Department of Petroleum Engineering, Tulsa University, Tulsa, OK, USA (Tulsa University Fluid Flow Project) “ <i>Multiphase Flow</i> ”
2006– 2006	INVITED PROFESSOR-CONSULTANT , Schlumberger, Dhahran Carbonate Research Center, Saudi Arabia, (August-September 2006) “ <i>Multiphase Flow</i> ”
2006 – 2007	ASSOCIATE PROFESSOR , Department of Mechanical Engineering, Hashemite University, Zarqa, Jordan
2003 – 2005	CHAIRMAN , Department of Mechanical Engineering, Hashemite University, Zarqa, Jordan
2001 – 2003	ASSISTANT PROFESSOR , Department of Mechanical Engineering, Hashemite University, Zarqa, Jordan
1999 – 2001	RESEARCH ASSOCIATE , Department of Chemical Engineering, University of Illinois Urbana-Champaign, IL, USA (T. J. Hanratty Research Group) “ <i>Multiphase Flow</i> ”
May 1990 - August 1990	ENGINEERING INTERN , <i>Jordan Petroleum Refining Company, Jordan</i> Supervised and performed maintenance work on pumps, valves, turbines and thermal power plants and accessories.
June 1994 - April 1995	DESIGN ENGINEER , <i>Austrian/ Jordanian MFG. Co., Jordan</i> Design and maintenance of different types of Moulds (Plastic Injection, Blow, and Thermoforming). Spare parts design. Customer Decision Support and Consulting.
March 1994 - June 1994	MECHANICAL ENGINEER , <i>Karl Wess Factory, Austria</i> Training program in Designing and Manufacturing of different types of molds including Injection, Blow, Die-casting, Cold Work, and Thermoforming molds.

EDUCATION: **OKLAHOMA STATE UNIVERSITY**, Stillwater, OK, USA
Ph.D., Mechanical Engineering, December, 1999.

JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY, Irbid, Jordan
Master of Science, Mechanical Engineering, May 1993.

JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY, Irbid, Jordan
Bachelors of Engineering, Mechanical Engineering, May 1990.

AREAS OF INTEREST:

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|------------------------|---|---|
| <i>Teaching</i> | <ul style="list-style-type: none">• Fluid Dynamics• Multiphase Flow• Introduction to Engineering• Engineering Measurements | <ul style="list-style-type: none">• Thermodynamics• Experimental Fluid Mechanics• Heat Transfer & Transport phenomena• Hydraulic |
| <i>Research</i> | <ul style="list-style-type: none">• Multiphase Flow W/O additives• Heat Transfer and Thermodynamics | <ul style="list-style-type: none">• Experimental Fluid Dynamics (LDA, PIV, Hotwire)• Energy |

COURSE TAUGHT

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| <ul style="list-style-type: none">-Advanced Fluid Mechanics (Viscous Fluid Flow)-Phase change heat transfer and two-phase flow-Engineering Fluid Mechanics-Experimental Fluid Dynamics-Heat Transfer-Transport Phenomena-ThermoFluid Lab.-Heat Transfer Lab.-Thermodynamics Lab. | <ul style="list-style-type: none">-Engineering Fluid Mechanics-Experimental Fluid Dynamics-Heat Transfer-Transport Phenomena-Thermodynamics-Fluid Power (Hydraulics Machine)-Measurements & Instrumentation-Statics-Introduction to Engineering |
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CURRICULUM DEVELOPMENT

- ☐ Complete feasibility study and study plan for BS Program in Mechanical Engineering with minor in Nuclear Engineering with collaboration with MIT.
- ☐ Chairman of curriculum and academic affair committee.

PROFESSIONAL DEVELOPMENT WORKSHOPS/MEETINGS

- Workshop on: "Bringing Deeper Learning into Classroom: Bloom's Taxonomy", KFUPM, Deanship of Academic Development, 19 October 2010.
- Workshop on student motivation: an effective approach for enhancing student learning, KFUPM, 21-Mar-2010
- Workshop on: "Solid Particle Erosion Sand Monitoring and Transport & Corrosion in Multiphase Flow", KFUPM, 24-26 May 2010.

- Workshop on: "Research Team Leadership", Foundation of Leadership in Higher Education, Al-Khobar, Nov. 15-16, 2009.
- Workshop on: "Strategies for Success in Grant Proposal Writing", DSR, KFUPM, May 11-12, 2009.
- Workshop on: "Developing Academic Leadership", DAD, KFUPM, May 5-6, 2009.
- Workshop on: "Innovation and Technology Licensing", KFUPM, April 21, 2009.
- Workshop on: "Measuring Research Performance", DSR, KFUPM, March 8-9, 2009.
- Workshop on: "Production and Upstream Flow Measurement Workshop" Hilton Houston NASA Clear lake, 11-15 February 2008, Houston, USA
- Workshop on: "Online course development" Hashemite University, Jordan, 2001 with coordination of the director of the Online course section at University of Illinois Urbana Champaign, USA
- AIAA /ASME Symposium XVII, Tulsa, OK, 1997, "Flow Distribution in Tangential Entry Automotive Air Filter Housings.
- AIAA/ASME Symposium XVIII, Norman, OK, 1998, "Comparison of Filtration Efficiencies for an Automotive Air Filter in Two Different Housing Configurations"
- AIAA /ASME Symposium XIX, Edmond, OK, 1999, " Optimization Technique for Design of Automotive Air Filter Housing With Improved Fluid Dynamics Performance"

PROFESSIONAL STUDIES & SHORT COURSES

- ☐ Control Valve Sizing and Selection under Single and Two-Phase Flow conditions
- ☐ Two-phase flow in pipes

ORGANIZATIONS & AFFILIATIONS:

- American Society of Mechanical Engineers (ASME)
- Jordanian Engineers Association (JEA) - Division of Mechanical Engineering
- Society of Petroleum Engineers (SPE)
- Organizing committee, Third International Conference of Thermal Engineering and Applications, 2007, Amman-Zarqa, Jordan.

EDITORIAL BOARD:

The Scientific World Journal; Subject Area of Mechanical Engineering
<http://www.hindawi.com/journals/tswj/editors/mechanical.engineering/>

PATENT:

- Wael H. Ahmed, Abdelsalam Al Sarkhi, Meamer El Nakla "Multiphase Flow Detector", Patent US 20140060204 A1
- Wael H. Ahmed, Meamer El Nakla, Abdelsalam Al Sarkhi, Hassan Badr "Sensor for Two-Phase Flow Measurements", Patent # US 8820175

HONORS AND AWARDS:

- Distinguished Research Award, KFUPM (2015)
- On the college of Engineering/ honor list several times during B.Sc. degree.
- Ranking the first in the class of 1991 B.Sc. batch.

- Doctoral tuition scholarship, 1995 - 1999.
- Jordanian Ministry of Higher Education and Research Award 2004 for the best distinguished research project in Jordan.

PUBLICATIONS:

Published in Refereed Journals

1. A., Mukhaimer, A. Al-Sarkhi, M., El Nakla, W. H. Ahmed, L., Al-Hadhrami (2015), Pressure Drop And Flow Pattern Of Oil-Water Flow For Low Viscosity Oils: Role Of Mixture Viscosity, International Journal of Multiphase Flow, Volume 73, July 2015, Pages 90-96 , 2015
2. A., Mukhaimer, A. Al-Sarkhi, M., El Nakla , W. H. Ahmed, L., Al-Hadhrami (2015) , Effect Of Water Salinity On Flow Pattern And Pressure Drop In Oil-Water Flow, Journal of Petroleum Science and Engineering, Volume 128, April 2015, Pages 145-149, 2015
3. M. Al-Yaari, M., Hussein, I., Al-Sarkhi, A., Abbad, M., Chang, F. (2015) Effect of Water Salinity on Surfactant-Stabilized Water-Oil Emulsions Flow Characteristics, Experimental Thermal and Fluid Science, 64, PP. 54-61, June, 2015.
4. Gawas, K. Karami, H. Pereyra, E. Al-Sarkhi, A., Sarica C., Wave characteristics in gas–oil two phase flow and large pipe diameter International Journal of Multiphase Flow, Volume 63, July 2014, Pages 93-104.
5. M. Al-Yaari, M., Hussein, I., Al-Sarkhi, A. (2014), Pressure drop reduction of stabilized water-in-oil emulsions using organoclays, Applied Clay Science, Vol. 95, June 2014, 303-309.
6. Al-Sarkhi, A., C. Sarica (2013) Modeling of the Droplet Entrainment Fraction in Adiabatic Gas–Liquid Annular Flow, Multiphase Science and Technology, vol. 25 (1), 1-23.
7. Wael H. Ahmed, Mufatiu M. Bello, Meamer El Nakla, Abdelsalam Al Sarkhi, Hassan M. Badr, (2014) Experimental Investigation of Flow Accelerated Corrosion under Two-phase Flow Conditions, Nuclear Engineering and Design, 267, 34-43.
8. El Nakla Meamer, Ahmed Wael, Abdelsalam Al-Sarkhi, Abdelsalam, (2013) Effect of Carbon Nanotube Additive on the Thermal Performance of a Horizontal V-Grooved Heat Pipe, Journal of Nano Research, 26, 83-88.
9. Al-Yaari, M., Al-Sarkhi, A., Hussein, I., Chang, F., Abbad, M., (2014) Flow Characteristics of Surfactant Stabilized Water-in-Oil Emulsions, **Trans IChemE**, Chemical Engineering Research and Design, 92, 405-412.
10. El Nakla M., Al-Sarkhi, A., Alsurakji, I. (2013), A Look-up Table for Two-Phase Frictional Pressure Drop Multiplier, Nuclear Engineering and Design, 265, pp. 450-468.
11. Al-Yaari, M. AL-Sarkhi, A., Hussein, I. , Abu Sharkh, B. (2013) Effect Of Drag Reducing Polymers On Surfactant-Stabilized Water-Oil Emulsions Flow. Experimental Thermal and Fluid Science, 51, 319-331.
12. M El Nakla, M Habib, W Ahmed, A Al-Sarkhi, R Ben Mansour, MY Al-Awwad, (2013) Application of the Critical Heat Flux Look-Up Table to Large Diameter Tubes, Science and Technology of Nuclear Installations
13. Lee H. , Al-Sarkhi A., Pereyra E. , Sarica C. , Park C. , Kang J., Choi J., (2013), Hydrodynamics model for gas–liquid stratified flow in horizontal pipes using minimum dissipated energy concept, Journal of Petroleum Science and Engineering, 108, 336-341.
14. Al-Sarkhi, A., (2013) Effects of drag-reducing polymers on stratified and slug gas-liquid flows in a horizontal pipe. AJSE, the Arabian Journal for Science and Engineering, 38, 699-704.
15. Habib, M.A., Ben-Mansour, R., Ahmed, W.H. , Al-Otaibi, A.M., AL-Sarkhi, A., Gasem, Z. (2013) , Oil-water two-phase flow redistribution in horizontal and near horizontal pipelines, 40, Issue 6, 494-511, International Journal of Fluid Mechanics Research.

16. Luai M. Al-Hadhrani, S. M. Shaahid, Lukman O. Tunde, and A. Al-Sarkhi (2013) Experimental Study on the Flow Regimes and Pressure Gradients of Air-Oil-Water Three-Phase Flow in Horizontal Pipes, *The Scientific World Journal*, Article ID 810527, 11 pages, <http://dx.doi.org/10.1155/2013/810527>.
17. Ahmed, W. , Mufatiu M., El Nakla, M, Al-Sarkhi, A. (2012) Flow and mass transfer downstream of an orifice under flow accelerated corrosion conditions, *Nuclear Engineering and Design*, 252, 52-67.
18. Al-Yaari, M., Al-Sarkhi, A. , Abu-Sharkh, B. (2012) Effect of Drag Reducing Polymers on Water Holdup in an Oil-Water Horizontal Flow, *International Journal of Multiphase Flow*. 24, 29-33.
19. **Al-Sarkhi, A.**, Sarica, C., Qurashi, B. Modeling of Droplet Entrainment in Co-current Annular Two-Phase Flow: A New Approach, (2012), *International Journal of Multiphase Flow* 39, 21-28.
20. Al-Sarkhi, A. , (2012), Effect of mixing on frictional loss reduction by drag reducing polymer in annular horizontal two-phase flows, *International Journal of Multiphase Flow*, 39, 186-192.
21. Magrini, K., Sarica, C., **AL-Sarkhi, A.**, Zhang, H.-Q., (2012) Liquid Entrainment in Annular Gas/Liquid Flow in Inclined Pipes, *SPE Journal*, 17 (2),pp. 617-630.
22. **Al-sarkhi, A.** and Sarica, C., (2011), Comment on: "Droplet entrainment correlation in vertical upward co-current annular two-phase flow", by Pravin Sawant, Mamoru Ishii, Michitsugu Mori, *Nuclear Engineering and Design* 238 1342-1352 (2008), *Nuclear Engineering and Design*, 241 (8), 3357-3358.
23. **Al-Sarkhi, A.**, Sarica, C., Magrini, K. , (2012) Inclination Effects on Wave Characteristics in Annular Gas-Liquid Flows, *AIChE Journal*, 58 (4), 1018-1029, doi: 10.1002/aic.12653
24. Jeyachandra, B. C. , Gokcal, B., **Al-Sarkhi, A.**, Sarica, C. Sharma, A. K., (2012) Drift Velocity Closure Relationships for Slug Two-Phase High Viscosity Oil Flow in Pipes, *SPE Journal*, 17 (2), 593-601.
25. **Al-Sarkhi, A.** and Sarica, C. (2011). Comment on: "Correlation of Entrainment for Annular Flow in Horizontal Pipes, letter-to-the-Editor, *International Journal of Multiphase flow*, 37, 535-536.
26. **Al-Sarkhi, A.**, El-Nakla, M., Ahmad, W. (2011) Friction factor correlations for gas-liquid/liquid-liquid flows with drag-reducing polymers in horizontal pipes. *International Journal of Multiphase Flow*, 37, 501-506.
27. **Al-Sarkhi, A.** and Sarica, C., Power Law Correlation for Two Phase Pressure Drop of Gas/Liquid Flows in Horizontal Pipelines. (2010) *SPE Projects, Facilities & Construction*, 5, (4), SPE 138516-PA, 176-182.
28. A. Sharma, **A. AL-Sarkhi**, C. Sarica, Z. Hong-Quan, (2011) Modeling of Oil-water flow using energy minimization concept., *Int. Journal of Multiphase Flow*, volume 37, (4), 326 – 335.
29. **Al-Sarkhi, Abdelsalam** (2010, July 10). Drag Reducing Polymers in Two-Phase Flow. *SciTopics*. Retrieved February 17, 2011, from http://www.scitopics.com/Drag_Reducing_Polymers_in_Two_Phase_Flow.html
30. **Al-Sarkhi, A.** (2010) Drag reduction with polymers in gas-liquid/liquid-liquid flows in pipes: a literature review, *Journal of Natural Gas Science and Engineering* 2, pp. 41-48.
31. Gokal, B., **Al-Sarkhi, A.S.**, Sarica, C., and Al-Safran, E.M. (2010) Prediction of Slug Frequency for High-Viscosity Oils in Horizontal Pipes. *SPE Projects Facilities & Construction* 5 (3): 136-144. SPE-124057-PA.
32. E. Abu-Nada, B. Akash, I. Al-Hinti and **A. Al-Sarkhi**, (2009) Performance of Spark ignition Engine Under Effect of Friction Using Mixture Model, *Journal of the Energy Institute*, 83 (3).
33. M Al-Yaari, A. Soleimani , Abu-Sharkh, U. Al-Mubaiyedh , **A. Al-Sarkhi**, (2009) Effect of Drag Reducing Polymers on Oil-Water Flow in A Horizontal Pipe, *Int. J of Multiphase flow*, 35 (6), 516-524.
34. S. Atmaca, , C. Sarica,, H.-Q. Zhang, and **A.S. Al-Sarkhi**, (2009) Characterization of Oil-Water Flows in Inclined Pipes, *SPE Project, Facilities & Construction Journal* , 4(2), 41-46.
35. B. Gokcal, **A. S. Al-Sarkhi**, and C. Sarica, (2009) Effects of High Oil Viscosity on Drift Velocity for Horizontal and Upward Inclined Pipes. *SPE Projects, Facilities & Construction Journal*. 4(2) pp.32-40.

36. I. Al-Hinti, B. Akash, E. Abu-Nada, **A. Al-Sarkhi**, (2008) Performance analysis of air-standard Diesel cycle using an alternative irreversible heat transfer approach, *Energy Conversion and Management*, 49 (11), 3301-3304.
37. **A., Al-Sarkhi**, E. Abu-Nada, B. Akash, S. Nijmeh, (2008) "Performance evaluation of standing column well for potential application of ground-source heat pump in Jordan". *Energy Conversion & Management*, 49, 863-872.
38. E., Abu-Nada, B. Akash, I. Al-Hinti, **A. Al-Sarkhi**, S. Nijmeh, A. Ibrahim, A. Shishan, (2008) "Modeling of a geothermal standing column well". *International Journal of Energy Research*, 32, 306-317.
39. **A., Al-Sarkhi**, B. Akash, E. Abu-Nada, S. Nijmeh, I. Al-Hinti, (2008) "Prospects of geothermal energy utilization in Jordan". *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, 30 (17).
40. **A. Al-Sarkhi**, B. Akash, E. Abu-Nada, I. Al-Hinti, (2008) "Efficiency of Atkinson engine at maximum power density using temperature dependent specific heat". *Jordan Journal of Mechanical and Industrial Engineering*, 2(2), 71-75.
41. E., Abu-Nada, I. Al-Hinti, **A. Al-Sarkhi**, B. Akash, (2008) "Effect of piston friction on the performance of SI engine: A new thermodynamic approach". *ASME Journal of Engineering for Gas Turbines and Power*, 130 (2) Paper # 022802-1.
42. E. Abu-Nada, **A. Al-Sarkhi**, B. Akash, I. Al-Hinti, (2007) "Investigation of heat transfer and fluid flow characteristics of separated flows under the effect of suction and blowing". **ASME Journal of Heat Transfer**, Vol. 129 (11), 1517-1528.
43. **A., Al-Sarkhi**, E. Abu-Nada, I. Al-Hinti, B. Akash, (2007) "Performance evaluation of irreversible miller engine under various specific heat models". *International Communications in Heat & Mass Transfer*, 34 (7), 897-906.
44. E. Abu-Nada, I. Al-Hinti, B. Akash, **A. Al-Sarkhi**, (2007) "Thermodynamic analysis of spark-ignition engine using a gas mixture model for the working fluid". *International Journal of Energy Research*, 31, 1031-1046.
45. E. Abu-Nada, I. Al-Hinti, **A. Al-Sarkhi**, B. Akash, (2006) "Thermodynamic modeling of spark-ignition engine: Effect of temperature dependent specific heats". *International Communications in Heat & Mass Transfer*, 33 (10), 1264-1272.
46. **A. Al-Sarkhi**, E. Abu-Nada and M Batayneh (2006) Effect of drag reducing polymer on air-water annular flow in an inclined pipe. *Int. J. Multiphase Flow*, 32, 926-934.
47. **A. Al-Sarkhi**, J. O. Jaber and S. D. Probert, (2006) Efficiency of a Miller engine, *Applied Energy*, Elsevier, 83, (4), 343-351.
48. **A. Al-Sarkhi**, J.O. Jaber, M. Abu-Qudais, S.D. Probert, (2006) Effect of friction and temperature-dependent specific-heat of the working fluid on the performance of a diesel engine, *Applied Energy*, Elsevier, 83 (2), 153-165.
49. **Al-Sarkhi**, A. (2005) Comparison between variable and constant height shrouded fin array subjected to forced convection heat transfer. *Int. Com. In Heat and Mass Transfer*, 32 (3), 548-556.
50. **Al-Sarkhi**, A. and Abu-Nada, E. (2005) Characteristics of forced convection heat transfer in vertical internally finned tube. *Int. Com. In Heat and Mass Transfer*, 32 (3), 557-564.
51. **Al-Sarkhi**, A. and Soleimani, A (2004) Effect of drag reducing polymers on two-phase gas-liquid flows in a horizontal pipe *Trans IChemE, Chemical Engineering Research and Design* **82** (A12), 1583-1588.
52. **Al-Sarkhi**, A., Chambers, F. W., (2004) Optimization technique for design of automotive air filter housing with improved fluid dynamic performance and filtration, *Particulate Science and Technology: an international Journal*, 22 (3), 235-252.
53. **Al-Sarkhi**, A., Abu-Nada, E., Akash, A., Jaber, J. (2003) A numerical Investigation of shrouded fin array under combined free and forced convection, *Int. Com. in Heat and Mass Transfer*, 30 (3), 435-444

54. Abu Nada, E., **Al-Sarkhi**, A., Ashhab, M. Akash, B. (2003) The effect of suction boundary condition on the local and average Nusselt numbers for a free convection flow regime, *Int. Com. in Heat and Mass Transfer*, 30 (3), 423-433.
55. Jaber, J., **Al-Sarkhi**, A., Mohsen, M., Akash, B. (2004) Medium-range planning economics of future electrical power generation options, *Energy Policy*, 32 (3), 357-366
56. **Al-Sarkhi**, A., Akash, B. , Jaber, J., Mohsen, M. (2002) Efficiency of miller engine at maximum power density. *Int. Com. in Heat and Mass Transfer*, 29 (8), 1159-1167.
57. Soleimani, A. , **Al-Sarkhi**, A., Hanratty, T. J. (2002) Effect of drag reducing polymers on Pseudo-Slugs- Interfacial drag and transition to slug flow. *Int. J. Multiphase Flow*, 28 (12), 1911 -1927
58. Jaber, J., Mohsen, M., **Al-Sarkhi**, A., Akash, B. (2003) Energy analysis of Jordan's commercial sector. *Energy Policy*, 31 (9), 817-929.
59. **Al-Sarkhi**, A. and Hanratty, T. J. (2002) Effect of pipe diameter on the drop size in a horizontal annular gas-liquid flow. *Int. J. Multiphase Flow* 28 (10), 1617-1629.
60. **Al-Sarkhi**, A. and Hanratty, T. J. (2001) Effect of Drag-Reducing Polymer on annular gas-liquid flow in a horizontal Pipe. *Int. J. Multiphase flow*, 27 (7), 1151-1162.
61. Chambers, F. W., **Al-Sarkhi**, A. and Shenghong, Y. (2001) Velocity distribution effects in air filter testing, *Particulate Science and Technology*, 19, 1-21.
62. **Al-Sarkhi**, A. and Hanratty, T. J. (2001) Effect of pipe diameter on the performance of Drag-Reducing Polymers in annular gas-liquid flows. *Trans IChemE, Chemical Engineering Research and Design*, 79 Part A, 402-408.
63. Jarrah, M., Aldoss, T. and **Al-sarkhi**, A. (1994) Interaction of two opposite conical curved wall jets, *Int. J. Heat and Fluid Flow*, 17 (4), 397-402.
64. Chambers, F. W., **Al-Sarkhi**, A. and Yao, S. H. (1997) Flow distribution in tangential inlet automotive filter housing, 50th annual meeting of the division of fluid dynamics, American Physical Society, San Francisco, CA, Nov. 1997. Bulletin of the American Physical Society, 42 (11) 2148-2160.
65. Chambers, F.W., **Al-Sarkhi**, A and Yao, S.H. (1999) Effects of vehicular air filter housing configuration and filter resistance on filter flow distributions and filtration, *SAE Technical Paper 1999-01-007*.

Refereed Conference Proceedings and Presentations:

1. Mustafa AL-Naser, Moustafa Elshafei, Abdelsalam Al-sarkhi, Two-Phase Flow Regimes Identification using Artificial Neural Network with Nonlinear Normalization, Proceedings of the 2nd International Conference on Fluid Flow, Heat and Mass Transfer Ottawa, Ontario, Canada, April 30 – May 1, 2015 Paper No. 133
2. Abdulrazaq A. Araoye, Wael H. Ahmed, Abdelsalam Al Sarkhi, Olufemi Bamidele, Hasan M. Badr and Ihab H. Alsurakji, Characterizing Drift Velocity for Two-Phase Flow Using Particle Image Velocimetry, 8th International Conference on Computational and Experimental Methods in Multiphase and Complex Flow, 20 - 22 April 2015, València, Spain.
3. AL-Naser, M., Elshafei, M., Al-Sarkhi, A., Image Adaptive Thresholding For Multiphase Wavy Flow, Proceedings of the ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting FEDSM2014, August 3-7, 2014, Chicago, Illinois, USA.
4. Ibnelwaleed Hussein, M. Al-Yaari, **A. Al-Sarkhi**, Mechanical Engineering, KFUPM, Dhahran, Saudi Arabia Pressure Drop Reduction of Stabilized Water-in-Oil Emulsions Using Organoclays, 2013 AIChE Annual Meeting, Hilton San Francisco Union Square, San Francisco, CA. Paper# 321007 November 3-8, 2013
5. M. El Nakla, Wael H. Ahmed and A. Al-Sarkhi, "Effect of Carbon Nanotube Additive on the Thermal Performance of a Horizontal V-Grooved Heat Pipe", 9th International Conference on Diffusion in Solid and Liquid, Madrid, Spain, 24–28 June 2013.

6. Wael H. Ahmed, M. El Nakla, and A. Al-Sarkhi, Hassan Badr "On the Development of Integrated Multiphase Flow Sensors", 7th International Conference on Computational and Experimental Methods in Multiphase and Complex Flow, A Coruña, Spain, 2–5 July, 2013.
7. M. Al-Yaari, **A. Al-Sarkhi**, I. Hussein, M. Abbad, F. Chang, and B. Abu-Sarkh, "Effect of Water Fraction on Surfactant-Stabilized Water-in-Oil Emulsion Flow Characteristics", SPE 164350, 18th Middle East Oil and Gas Show and Exhibition, Manama, Bahrain, 10–13 March 2013.
8. M. Al-Yaari, **A. Al-Sarkhi**, I. Hussein, M. Abbad, F. Chang, and B. Abu-Sarkh, "Pressure Drop Reduction of Stable Water-in-Oil Emulsion Flow: Role of Water Fraction and Pipe Diameter", IPTC 16883, the 6th International Petroleum Technology Conference, Beijing, China, 26–28 March 2013.
9. M. Al-Yaari, I. Hussein, **A. Al-Sarkhi**, M. Abbad, F. Chang, and B. Abu-Sarkh, "Pressure Drop Reduction of Stable Emulsions: Role of the Aqueous Phase Salinity", SPE, 2013 Annual Technical Symposium & Exhibition, Al-Khobar, Saudi Arabia, May 19-22, 2013.
10. Lukman T. Okunrinjeje, Luai M. Al-Hadhrami, **Abdelsalam Al-Sarkhi**, Study on the Performance of Three-Phase Horizontal Separator, Proceedings of the International Conference on Mechanical Engineering and Mechatronics, Ottawa, Ontario, Canada, 16-18 August 2012, Paper No. 41
11. Wael, Ahmed, M. El Nakla, **A. Al-Sarkhi**, M. Bello, "Effect of Mass Transfer On Flow Accelerated Corrosion Downstream an Orifice", The World Congress on Engineering and Technology, Shanghai, China, Oct. 28 - Nov. 2, 2011.
12. Wael H. Ahmed, Mufatiu M. Bello, M. El Nakla, and **A. Al-Sarkhi**, "Effect of Two-Phase Flow On Flow Accelerated Corrosion (FAC)", 23rd International Symposium on Transport Phenomena, Auckland, New Zealand, 19-22 November 2012
13. Kora C., Sarica, C., Zhang, H.-Q., **Al-Sarkhi**, A. Alsafran, E. M., Effect of high oil viscosity on slug liquid holdup in horizontal pipes, The Canadian Unconventional Resources Conference, Calgary, Alberta, Canada, 15-17 November, 2011.
14. **Al-Sarkhi, A.**, Evaluation of drag reducing polymers in multiphase flow. 15th International conference on Multiphase Production Technology, Cannes, France, June 2011.
15. Liquid Entrainment in Annular Gas/Liquid Flow in Inclined Pipes, K.L. Magrini, C. Sarica, **A. Al-Sarkhi**, SPE, and H.-Q. Zhang, , 2010 SPE Annual Technical Conference and Exhibition held in Florence, Tuscany, Italy, 20-22 September, 2010, SPE paper # 134765.
16. Effect of Pipe diameter and high oil viscosity on drift velocity for horizontal pipes. R. Ben-Mansour, A. Sharma, B. Jeyachandra, B. Gokcal, **A. Al-Sarkhi**, C. Sarica, 7th North American Conference on Multiphase Technology, Banff, Canada-2nd -4th June, 2010.
17. B. Gokcal, **A. Al-sarkhi**, C. Sarica, E. Al-Safran, Prediction of slug frequency for high-viscosity oils in horizontal pipes. 2009 SPE Annual Technical Conference and Exhibition, New Orleans, Louisiana, USA, 4–7 October 2009. SPE 124057.
18. **A. Al-Sarkhi** and C. Sarica, New dimensionless parameters and a power law correlation for pressure drop of gas-liquid flows in horizontal pipelines, 14th international conference Multiphase Production Technology, BHRgroup, Cannes, France, 17-19th June, 2009
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