

Curriculum Vitae



1. PERSONAL DATA:

Name Mahmoud Abdel-Halim Abdel-Goad
Date & place of birth 19-10-1965, El-Minia, Egypt
Nationality Egyptian
Marital status: Married (have children)
Contact: E-mail: m.abdelhalim@mu.edu.eg
mabdelgoad@yahoo.com
Mail address: Chemical Eng. Dept, Faculty of Eng.,
Minia University, El-Minia 61111, Egypt.
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2. Specialization:

- General Specialization : Chemical Engineering
- Specific Field : Nanotechnology

3. Academic Rank: Professor

4. ACADEMIC QUALIFICATIONS:

- 2000 PhD** Münster University, **Germany**.
Dissertation: Synthesis, Characterization, Rheological Properties and Microscopic Dynamics of Polymers with low Plateau Moduli. (Supervisor: Prof. Dieter Richter, Juelich)
- 1993 M.Sc** Chemical Engineering (Materials Engineering)
Chem. Eng. Dept, Faculty of Eng., Minia University, **Egypt**.
- 1989 B.Sc** Chemical Engineering with distinction grade
Chem. Eng. Dept., Faculty of Eng., Minia University, **Egypt**

5. EMPLOYMENT HISTORY

- Aug.18-till now **Founder and Coordinator** Petrochemicals Engineering Program with Credit Hours for under Graduate Studies at Minia Uni.
- March13-Aug16 **Head** of Chem.Eng. Dept, Eng.Fac., Minia Uni., Egypt
- Oct 2012-Jan15 **Professor**, part time, at Chemical Eng. Dept, Faculty of Eng, at The British University in Egypt
- Sept11-until now **Professor** at Chemical Eng. Dept, Faculty of Eng, Minia Uni., Egypt
- May 08-June11 **Associate Prof.** at Petroleum& Chemical Eng. Dept, College of Eng., Sultan Qaboos University, Sultnate of Oman
- Aug.05-May 08 **Assistant Prof.** at Petroleum& Chem. Eng. Dept, College of Eng., Sultan Qaboos University, Oman
- Feb.05-May 05 **Visiting Prof.**(consultant) at Petroleum& Chem. Eng. Dept, College of Eng., Sultan Qaboos University, Oman
- March03–Nov03 **Post Doc** at Research Center Jülich and Institute of Polymer Research Dresden , Germany
- Dec 03 – Jan 05 **Post Doc** at Institute of Polymer Research Dresden , Germany
- Feb 01 – Feb 03 **Assistant Prof.** at Chem. Eng. Dept, Faculty of Eng, Minia Uni., Egypt
- June 01 – Oct 01 **Guest Scientist** at Research Center Jülich, Jülich, Germany
- Oct 95 – Dec2000 **PhD** study at Jülich Research Center and Muenster Uni., Germany
- Jan 94 – Oct 95 **lecturer** at Chem. Eng. Dept, Faculty of Eng, Minia Uni. Egypt

Aug 89– Dec 93 **Demonstrator** at Chem. Eng. Dept, Faculty of Eng, Minia Uni., Egypt

6. Industrial Experience:

Jan 2001-2003: Consultant and Advisory Board Member in Solid Waste Management (Recycling of waste Plastics), Engineering Tasks group Co. (ENTAG), Cairo Egypt.

April 1994- Oct.1995: Consultant, Petrochemicals Co. (PVC), Alexandria, Egypt.

7. Awards/ Distinction:

- Member in the Scientific **Promotion Committee** for Professorships in Chem.Eng
- Highest Ten Citations Award (**1800** Citations), Minia University,Egypt, May 2017.
- Highest Ten Citations Award (1430 Citations), Minia University,Egypt, May 2016. (GoogleScholar: <https://scholar.google.com/citations?user=J75pkx0AAAAJ&hl=en>)
- International Publication Award, Minia University, Egypt, May 2013.
- Best researcher award 2009 from Sultan Qaboos university, University day, May 2, 2009
- Young Scientist Prize " Best European rheologists) , 2004 by RheoFuture.
- Best poster at 8th European Symposium on Polymer Blends and Eurofillers 2005, May 9 to 12, 2005 – Bruges, Belgium
- Member AICHE (American Institute for Chemical Engineers)and supervisor AICHE Student Chapter at Minia Uni., Egypt.
- Member of the American Nano Society
- “Who’s who” member in Engineering Academia
- Marquis Who’s who in the world has selected my biographical profile for inclusion in the forthcoming Who’s who in the world 2011 (28th Edition)
- PhD Scholarship from Egyptian Government (Oct 1995-Dec 2000).
- Member of the Arab Scientists& Industrialists Council (ASICO). Member of higher consultant in Nanotechnology Research at ASICO.
- Member in the International Labor Organization (ILO).
- **Promotion:**
- June 2011: Professor at Minia University, Egypt.
- May 2008: Associate professor at Sultan Qaboos University, Oman.
- April 2006: Associate professor at Minia University, Egypt.

8. Teaching Experience

- I have developed/prepared and taught the following courses:
- Materials Engineering
- Polymers
- Unit Operations I
- Unit Operations II
- Polymer Rheology
- Petroleum Refining
- Processes Heat Transfer
- Heat Transfer
- Graduation Project I & II
- Chemical Engineering Lab
- Petroleum Processing
- Plant Design and Economics
- Mass Transfer
- Natural and Synthetic Fibers
- Petrochemicals Engineering
- Chemical Reactions Kinetics

- Reactor Design
- Physical Chemistry
- Fundamentals of Chemical Engineering
- Biochemical Engineering - Safety - Engineering Drawing
- Academic advisor for many students.
- Supervision industrial training and lab training
- Course and teaching evaluation: Average **3.2** out of 4.

9. Research Interests:

- Polymer Nanocomposites: preparation of polymer nanocomposites from cheap nanofillers and the application of polymer nanotechnology.
 - Synthesis and Characterization of Polymers (Rheology, Morphology, Thermal and Molecular Characterization).
 - Rheology (Polymer Melts, Polymer Solutions and Gels)
 - Rheo-SAXS (Rheology-Small Angle X ray Scattering).
 - Recycling of waste plastics and rubbers: Reuse of different types of waste plastics and tires in different applications, in addition to, a new technique for handling and treatment of the medical waste plastics.
 - Converting waste plastics and tires into liquid fuel (crude oil) utilizing nano catalyst.
 - Polymer/gels system (Kinetics of gelation)
 - Polymer Technology for Enhanced Petroleum Oil Recovery and Well Performance: Preparation and characterization of different polymeric materials which are currently used in the oil field with emphasis on utilizing environmentally friendly new formulated polymeric materials based on the polymer nanocomposites.
 - Nano Drugs
- *PhD & MSc Supervision*
Advisor for PhD and MSc students at Chemical Engineering Dept, Faculty of Eng., El Minia University, Egypt.
 - **Construction of Nanotechnology's Lab** at Faculty of Eng., Minia Uni.
 - **Synthesis of New Nano Fillers** from local raw materials such as Nano Silica, Nano Bentonite layers and Nano expanded Graphite.

10. Industrial Research Projects with total budget 2.8 Millions US \$ (US \$ 2,805,550)

- 1) Title: Polymer Technology for Improved Oil Recovery in Oman Fields
 Project Code: CR/DVC/OGRC/08/01
 Principal investigator: Dr. Rashid Al-Maamari
 First investigator: **Dr.Mahmoud Abdel-Goad**
 Budget: **US \$ 2311845**; Sponsor: Petroleum Development Oman Co, PDO; Status: Completed
- 2) Title: Evaluation of non-intrusive Hydro steel technique for detecting sour corrosion.
 Project Code:CR/ENG/PCED/07/06
 Principal investigator: **Mahmoud Abdel-Goad**
 Budget: US \$ 47990; Sponsor: PDO; Status: Completed
- 3) Title: Evaluation of Microcor advanced electrical resistance technique for corrosion monitoring
 Project Code: CR/ENG/PCED/07/07
 Principal investigator: **Mahmoud Abdel-Goad**

Budget: US \$ 31993; Sponsor: PDO; Status: Completed

- 4) Title: Detecting sour corrosion using different techniques.
Project Code:CR/ENG/PCED/08/01
Principal investigator: **Mahmoud Abdel-Goad**
Budget: US \$ 36457.2; Sponsor: PDO; Status: Completed

- 5) Title: Detecting sour corrosion and evaluation of Microcor advanced electrical resistance technique Project Code:CR/ENG/PCED/08/02
Principal investigator: **Mahmoud Abdel-Goad**
Budget: US \$ 29645; Sponsor: PDO; Status: Completed

- 6) Title: Excellence in Enhanced Oil Recovery: pH-Sensitive Polymers for Novel Improving Reservoir
Project Code: CR/ENG/PCE/06/03
Principal investigator: Dr. Yahya Al-Wahaibi
Co-investigator: **Dr.Mahmoud Abdel-Goad**
Budget: US \$ 334,620; Sponsor: PDO; Status: Completed (phase1)

- 7) Title: Effect of Drag Reducing Polymers in Horizontal oil Water Flow
Project Code: IG/ENG/08/16
Principal investigator: Dr. Talal Al-Wahaibi
Co-investigator: **Dr.Mahmoud Abdel-Goad**
Budget: US \$ 13000; Sponsor: SQU; Status: Completed (phase1)

- 8) Model Polymers (Project No. L1A.2.A, 01-05): Project Principal Investigator.
The research project financially supported by International Bureau in Germany; the project was performed at Institute of Neutron Scattering, IFF, Research Center Jülich, Germany (Joint with: Dr. Pyckhout-Hintzen, Dr. Pyckhout-Hintzen, IFF).

- 9) Triblock Copolymer (IPF 04/05): Project Co-investigator
The research project financially supported by BASF Co. in Germany; the project was performed at Institute of Polymer Research, Dresden, Germany.

- 10) Hydrogen Fuel (IEV 96/97): Project Co-investigator
The research project financially supported by Opel Co. in Germany; the project was performed at Institute of Energy, Research Center Juelich, Germany.

11. Foundation of Undergraduate program:

I proposed, prepared and constructed a new BSc program based on credit hours in **Petrochemicals Engineering**. I proposed this program to the college of Engineering, Minia University, Egypt. The program proceeded and evaluated in different committees at different levels and finally approved to be started at the beginning of academic year 2018/2019.

12. PUBLICATIONS:

(Total International Citations=2076;i10-index=19; h-index=16 (Nov19);Total impact factor=128; GoogleScholar:
https://scholar.google.com/citations?user=HMEIf_0AAAAJ&hl=en)

A) Refereed Journal papers

- *Papers in 2019*

- 1) **Mahmoud Abdel-Goad**, Narmine Mahmoud and Basma Saad " The analysis of Adsorption Phenomenon for Nano Silica with Some Radionuclides released in the primary coolant of PWR" **Egyptian Journal of Chemistry**, Doi:10.21608/EJCHEM.2019.16068 (Impact Factor=0.43) in press, Accepted Oct.20,2019
- 2) **Mahmoud Abdel Goad** " Rheological Properties of Polyvinylacetate: Compliance and Relaxation Spectrum" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 3 Issue 5, May – 2019, PP. 8-10, 2019.

- Papers in 2018

- 3) **Mahmoud Abdel-Goad** and Hisham El-Shrief "Reuse of Waste Plastic in the Modification of Rheological Characteristics of Bitumen" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 12, Dec. – 2018, PP. 31-35, 2018.
- 4) **Mahmoud Abdel Goad** " Complex Modulus of Waste Tires Reinforced Polystyrene" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 8, Aug – 2018, PP. 8-11, 2018.
- 5) **Mahmoud Abdel Goad** "Dynamic and Complex Viscosity of Polystyrene/ Waste Tires Composites" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 8, Aug – 2018, PP. 12-15, 2018
- 6) **Mahmoud Abdel Goad** "Dynamic Mechanical Analysis for Waste Tires Reinforced Polystyrene: Shear Compliance" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 8, Aug – 2018, PP. 51-54, 2018
- 7) **Mahmoud Abdel Goad** "The Shear Creep Stress and Loss Factor of Polystyrene/ Waste Tires Composites" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 4, April – 2018, PP. 29-32, 2018
- 8) **Mahmoud Abdel Goad** "Molecular Characterization of Polystyrene/ Waste Tires Composites" **International Journal of Engineering and Information Systems (IJEAIS)** (Impact Factor=3.8) ISSN: 2000-000X Vol. 2 Issue 4, April – 2018, PP. 33-36, 2018
- 9) **Mahmoud Abdel Goad** "Rheological Characterization of Bitumen/Waste Polyethylene Composites: Part II" **International Journal of Academic Engineering Research (IJAER)** (Impact Factor=1.06) ISSN: 2000-001X Vol. 2 Issue 3, March – 2018, PP. 7-11, 2018
- 10) **Mahmoud Abdel Goad** "Reuse of Waste Plastic in the modification of Rheological Characteristics of Bitumen: Part II" **International Journal of Academic Engineering**

- Research (IJAER) (Impact Factor=1.06) ISSN: 2000-001X Vol. 2 Issue 3, March – 2018, PP. 12-15, 2018.**
- 11) **Mahmoud Abdel Goad "Dynamic Mechanical Properties of Bitumen Composites: Part II" International Journal of Academic and Applied Research (IJAAR) (Impact Factor=1.01) ISSN: 2000-005X Vol. 2 Issue 3, March – 2018, PP. 5-8, 2018.**
 - 12) **Mahmoud Abdel Goad " Rheological Properties of Polyvinylacetate: Creep Compliance and Viscosity" International Journal of Academic and Applied Research (IJAAR) (Impact Factor=1.01) ISSN: 2000-005X Vol. 2 Issue 3, March – 2018, PP. 9-11, 2018.**
 - 13) **Mahmoud Abdel Goad "Rheological Properties of Polyvinylacetate: Storage-Loss Modulus and Relaxation Stress" International Journal of Academic and Applied Research (IJAAR) (Impact Factor=1.01) ISSN: 2000-005X Vol. 2 Issue 3, March – 2018, PP. 12-15, 2018.**
 - 14) **Mahmoud Abdel Goad" Rheological Properties of Polyvinylacetate: Part II" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 2, February – 2018, Pages: 22-25, 2018.**
 - 15) **Mahmoud Abdel Goad" Rheological Characteristics of Waste Polyvinyl Chloride- Bitumen Composites: Part III" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 2, February – 2018, Pages: 18-21, 2018.**
 - 16) **Mahmoud Abdel Goad" Rheological Characteristics of Waste Polyvinyl Chloride- Bitumen Composites: Part II" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 2, February – 2018, Pages: 14-17, 2018.**
 - 17) **Mahmoud Abdel Goad" Rheological Characterization of Bitumen/Waste Polyethylene Composites: Part III" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 2, February – 2018, Pages: 6-13,, 2018.**
 - 18) **Mahmoud Abdel Goad" Softwood/Polystyrene Composites. Part I: Preparation and Melt Rheology Characterization" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 1, Jan– 2018, PP. 65-73, 2018.**
 - 19) **Mahmoud Abdel Goad" Polystyrene Composite: Part II: Dynamic Mechanical Characterization" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 2 Issue 1, Jan2018, PP.204-210, 2018.**
- *Papers in 2017*
- 20) **Mahmoud Abdel Goad and Rahma Hamad "Synthesis of Nano-fillers from Local Materials by Two Different Methods" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 1 Issue 5, July– 2017, PP. 14-21, 2017.**
 - 21) **Mahmoud Abdel Goad and Rasha Ali " Thermal and Catalytic Cracking of Plastic Wastes into Hydrocarbon Fuels" International Journal of Engineering and Information Systems (IJEAIS) (Impact Factor=3.8) Vol. 1 Issue 5, July– 2017, PP. 56-61, 2017.**

- *Papers published in the range from 2015 to 2003.*

- 22) Herwin Jerome Unidad, **Mahmoud Abdel Goad**, Ana Rita Bras, Michaela Zamponi, Rudolf Faust, Jürgen Allgaier, Wim Pyckhout-Hintzen, Andreas Wischnewski, Dieter Richter, and Lewis J. Fetters " Consequences of Increasing Packing Length on the Dynamics of Polymer Melts" **Macromolecules** (Impact Factor=5.83), 48 (18), pp 6638–6645, 2015.
- 23) **Mahmoud Abdel-Goad** “Rheological Characterization of Melt Compounded Polypropylene/clay Nanocomposites’ **Composites part B: Engineering** (Impact Factor=3.85), Vol. 42, PP. 1044–1047, 2011 (available online March 31, 2011).
- 24) **Mahmoud Abdel-Goad**; Yahy Al-Wahaibi; Talal Al-Wahaibi and Hamed Al-Shurji “Use of a Novel pH-Triggered Polymer-Gel System for Optimal Mobility-Control Applications” **E-polymers** (Impact Factor=0.89), 036, 2012.
- 25) Yahya Al-Wahaibi, Talal Al-Wahaibi, **Mahmoud Abdel-Goad** “ Characterization of pH-Sensitive Polymer Microgel Transport in Porous Media for Improving Oil Recovery” **Energy Sources, Part A** (Impact Factor=0.8), Volume 33, Issue 11, PP. 1048 – 1057, 2011.
- 26) Talal Al-Wahaibi, Yahya Al-Wahaibi, **Mahmoud Abdel-Goad**"geochemical characterization of omani sandstone cores-analysis of change in ph and rock mineral constituents concentrations", **Petroleum & Coal** (Impact Factor=0.4), 54 (3) PP. 260-270, 2012.
- 27) Alain Zaitoun, Makakou and N. Blin, R.ashid Al-Maamari, Abdulaziz Al-Hashmi, **Mahmoud Abdel-Goad** and Hamed Al-Sharji “Shear Stability of EOR Polymers”, SPE International (Society of Polymer Engineers), SPE paper # 141113, 2011.
- 28) Petra Pötschke¹, **Mahmoud Abdel-Goad**, Sven Pegel¹, Dieter Jehnichen¹, James E. Mark, Donghui Zhou and Gert Heinrich, “Comparisons Among Electrical and Rheological Properties of Melt-Mixed Composites Containing Various Carbon Nanostructures”, **Journal of Macromolecular Science, Part A: Pure and Applied Chemistry** (Impact Factor=0.9), Vol.47 ; PP. 12 – 19, 2010.
- 29) **Mahmoud Abdel-Goad**, “Waste Plastic-modified Bitumen: Rheological Study”, **The Journal of Engineering Research** (TJER), V 6, No.1, PP.76-81, Jan 2009.
- 30) **Mahmoud Abdel-Goad**, “Dynamic Mechanical Moduli of Residual Softwood-Filled Polystyrene”, **The Journal of Engineering Research** (TJER), V 6, No.1, PP.59-65, Jan 2009.
- 31) Belklam Zidelkheir, **Mahmoud Abdel-Goad** “Effect of Surfactant Agent upon the Structure of Montmorillonite: X-ray diffraction and thermal analysis”, **Journal of thermal analysis and calorimetry** (Impact Factor=1.9), Vol. 94, PP.181-187, 2008.
- 32) Mahandra Thunga, Bahandra Satapathy, Uirilke Staudinger, Roland Weidisch, **Mahmoud Abdel-Goad**, Andreas Janke, Korn Knoll; “Dynamic mechanical and rheological properties of binary S-(S/B)-S triblock copolymer blends”**Journal of Polymer Science: Part B: Polymer Physics** (Impact Factor=2.83),Vol. 46, PP.329–343, 2008.
- 33) **Mahmoud Abdel-Goad**, Petra Potschke, Donghiu Zhou, Jim Mark;Gert Heinrich, “Preparation and Rheological Characterization of Polymer Nanocomposites Based on Exapanded Graphite”, **Journal of Macromolecular Science, Part A: Pure and Applied Chemistry** (Impact Factor=0.9), 44 (6); PP. 591 – 598, 2007.

- 34) Mahandra Thunga, Uirilke Staudinger, Bahandra Satapathy, Roland Weidisch, **Mahmoud Abdel-Goad**, Andreas Janke, Korn Knoll; "Influence of Molecular Architecture of S-S/B-S Triblock Copolymers on Rheological Properties ", **Journal of Polymer Science: Part B: Polymer Physics (Impact Factor=2.83)**, Vol. 44, PP.2776–2788; 2006.
- 35) **Mahmoud Abdel-Goad**: "Rheological Characterization of Bitumen-waste polyvinyl chloride" - **Journal of Applied Polymer Science (Impact Factor=1.8)**, 101, PP. 1501–1505, 2006.
- 36) Francis Reny Costa, Udo Wagenknecht, **Mahmoud Abdel-Goad**, and Gert Heinrich, "Nanocomposites based on Polyethylene and Mg-Al Layered Double Hydroxide: part II. Rheological Characterization", **Polymer (Impact Factor=3.7)**; 47; PP.1649-1660; 2006.
- 37) Belklam Zidelkheir, S. Boudjemaa, **Mahmoud Abdel-Goad** and B. Djellouli, "Synthesis and Morphology of Polystyrene /Montmorillonite Nanocomposite via Melt intercalation Process.", **Iranian Polymer Journal (IPJ) (Impact Factor=1.6)**; 15 (8); PP.645-653; 2006.
- 38) Francis Reny Costa, **Mahmoud Abdel-Goad**, Udo Wagenknecht and Gert Heinrich "Nanocomposites Based on Polyethylene and Mg-Al Layered Double Hydroxide: 1.Synthesis and Characterization", **Polymer (Impact Factor=3.7)**; 46; PP. 4447–4453; 2005
- 39) B. Schartel; Petra Pötschke; Ud Knoll; **Mahmoud Abdel-Goad**: "Fire Behaviour of Polyamide 6/multiwall Carbon Nanotube Nanocomposites", **European Polymer Journal (Impact Factor=3.5)**; 41; PP. 1061–1070; 2005.
- 40) **Mahmoud Abdel-Goad**, Petra Pötschke, "Rheological characterization of melt processed polycarbonate-multiwalled carbon nanotube composites", **Journal of Non-Newtonian Fluid Mechanics (Impact Factor=2.6)**; 128; PP.2-6; 2005
- 41) Gert Heinrich, Volker Härtel, Jürgen Tschimmel, Manfred Klüppel, Francis Reny Costa, **Mahmoud Abdel-Goad**, Udo Wagenknecht, A.L. Sviskov, B. Lauke: "Structural Kinetics in Filled Elastomers and PE/LDH Composites", **Kautschuk Gummi Kunststoffe (Impact Factor=0.35)** (International Technical Journal for Polymer Materials), 58 (4), PP.163-166, 2005.
- 42) **Mahmoud Abdel-Goad**; Petra Pötschke, "Rheological Characterization of Melt Processed Polycarbonate-multiwalled Carbon Nanotube Composites" **E-polymer-MACRO Paris04-6.1**, 2005.
- 43) **Mahmoud Abdel-Goad**: "Rheological Characterization of Polyisobutylene" **E-polymer Journal**, MACRO Paris04-6.1; 2005.
- 44) **Mahmoud Abdel-Goad**: "Rheological Characterization of Bitumen-waste Poly(ethylentetraphthalate)" **E-polymer Journal**, MACRO Paris04-6.1; 2005.
- 45) Petra Pötschke, Arup Bhattacharyya, **Mahmoud Abdel-Goad**, Andreas Janke, H.Goering, "Multiphase Melt Mixed Polymer Blends Containing a Carbon Nanotube Filled Phase", **E-polymer Journal**, MACRO Paris04-6.1; 2005.
- 46) **Mahmoud Abdel-Goad**; Wim Pyckhout-Hintzen; Stefan Kahle ; Jürgen Allgaier; Dieter Richter; Lewis Fetters: "**Rheological Properties of 1,4-Polyisoprene Over A Large Molecular Weight Range**", **Macromolecules (Impact Factor=5.83)**; **37(21)**; **PP.8135-8144; 2004**.
- 47) Petra Pötschke; **Mahmoud Abdel-Goad**; Ingo Alig, Sergej Dudkin; Dirk Lellinger, "Rheological and dielectrical characterization of melt mixed polycarbonate – multiwalled", **Polymer (Impact Factor=3.7)**; 45 (26); PP. 8863-8870; 2004.

- 48) Arup Bhattacharyya; Petra Pötschke; **Mahmoud Abdel-Goad**; Dieter Fischer “Effect of Encapsulated SWNT on the Mechanical Properties of Melt Mixed PA12/SWNT Composites”, **Chemical Physics Letters (Impact Factor=1.8)**, 392; PP.28–33;2004.
- 49) **Mahmoud Abdel-Goad**, “Dynamic Mechanical Properties of Agricultural Residues-Filled Polystyrene”, **Journal of Applied Polymer Science (Impact Factor=1.8)**, 93, PP. 37–40, 2004.
- 50) Mostafa Abdel-Rahman; **Mahmoud Abdel-Goad**, “ Tribological and Viscoelastic Behavior of Butadiene Rubber Modified Polystyrene”, **Journal of the Egyptian Society of Tribology**, 2 (1), PP.44-56, 2004.
- 51) **Mahmoud Abdel-Goad**: “Structural Material from Waste Plastic”, **Journal of Applied Polymer Science (Impact Factor=1.8)**, 91, PP. 2543–2547, 2004.
- 52) Mostafa Abdel-Rahman; **Mahmoud Abdel-Goad**, “Temperature Effects on the Tribological and Rheological Behavior of Mica Flakes Filled polyurethane”, **Journal of Engineering Science**, Assiut Uni., Egypt, 32 (2), PP.805-818, 2004.
- 53) **Mahmoud Abdel-Goad**, Wim Pyckhout-Hintzen, Stefan Kahle ; Jürgen Allgaier; Dieter Richter; J. Fetters.; “Rheological Properties of Polyisoprene”; **RheoFuture**; Ref. No. 240204, Category: Rheology; 2004.

*** Refereed Journal papers (papers in 1994-1995):**

- 54) **Mahmoud Abdel-Goad**; Hasnien Asfour “Light Weight Bricks”, Faculty of Engineering Bulletin, El-Minia Uni., Egypt , 54, PP.54-61, 1995.
- 55) **Mahmoud Abdel-Goad**, Hasnien Asfour, “Manufacture of Economic Bricks”, Faculty of Engineering Bulletin, El-Minia Uni., Egypt , 51,PP.10-16; 1994.

*** Submitted/ in preparation Papers:**

- 1) **Mahmoud Abdel-Goad**, “The Rheology of Waste Poly(ethyleneterephthalate)/ Bitumen Blend ”, International Journal of Polymeric Materials (IJPM; ID: GPOM-0326).
- 2) **Mahmoud Abdel-Goad** and Mehmet A. Hastaoglu, “Recycling of the Post-consumed Plastics” ready for submission to “Industrial & Engineering Chemistry Research”.
- 3) Petra Pötschke, **Mahmoud Abdel Goad**, and Bernd Kretzschmar, “Preparation and characterization of melt mixed blends of carbon nanotube filled polycarbonate with montmorillonite filled polypropylene” ready for submission to “Polymer” journal.
- 4) **Mahmoud Abdel-Goad**, Nike Zafeiropoulos, M. Amici and Manfred Stamm, “Rheological characterization of nanocomposites based on polysilsesquioxanes”, in preparation.
- 5) **Mahmoud Abdel-Goad**, Rashid Al-Maamari, Abdul-Aziz Al-Hashmi “ kinetic reaction of polymer-gellation” in preparation.
- 6) **Mahmoud Abdel-Goad**, Roland Weidisch, Andreas Janke, K. Knoll, “Morphology and Crack Resistance Behavior of Star block Copolymer/Homopolymer Blends” in preparation.
- 7) **Mahmoud Abdel-Goad**; Petra Pötschke , Bernd Kretzschmar, “Quantitive Method to Determine the Percolation Threshold Concentration and Degree of Exfoliation” in preparation.

B) Book-chapter:

- 1) Pötschke, Arup Bhattacharyya, **Mahmoud Abdel-Goad**, Andreas Janke, Harald Goering, “Melt Mixed Blends of Carbon Nanotube filled Polycarbonate with Polyethylene” In: D.J. Brunelle, M.R. Korn, Advances in Polycarbonates, **ACS-Series 898, Chapter 13 pp. 164-177, Oxford University Press, February 2005, ISBN 0-8412-3887-1** (ISBN13: 9780841238879; eISBN: 9780841220164; DOI: 10.1021/bk-2005-0898).

C) Conferences

- 1) Petra Pötschke, Bernd Kretzschmar, Liane Häußler, **Mahmoud Abdel-Goad**, and Andreas Janke “Nanocomposite blends: Multiwalled carbon nanotube filled polycarbonate melt mixed with montmorillonite filled polypropylene”, 10th European Symposium on Polymer Blends, March 7 to 10, 2010, Dresden, Germany.
- 2) **Mahmoud Abdel-Goad**, Abdul-Aziz Al-Hashmi and Rashid Al-Maamari, “Evaluation of viscoelastic properties of a high molecular weight polyacrylamide-based polymeric material”, 2009 Multilingual Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (2009 ICCMME), 07-20.12.2009, Australia, Proceedings of the 2009 Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (2009 ICCMME). The paper is published by The Australian Institute of High Energetic Materials (ABN: 68 126 426 917), PP.28-37, first Published January, 2010, Editor-in-Chief: Dr Venelin Stamatov; USBN: 978-0-9806811-0-9.
- 3) **Mahmoud Abdel-Goad**, Bernd Kretzschmar, Petra Pötschke, Rashid S. Al-Maamari and Gert Heinrich “Rheological Characterization of Melt Compounded Polypropylene/clay Nanocomposites” the 2008 NSTI Nanotechnology Conference and Trade Show, June 1-5, 2008, Boston, Massachusetts, U.S.A. (Technical Proceedings of the 2008 NSTI Nanotechnology Conference and Trade Show, NSTI-Nanotech, Nanotechnology 2008 1, pp. 973-976 ISBN: 978-1-4200-8503-7)
- 4) Yahya Al-Wahaibi; **Mahmoud Abdel-Goad**; Talal Al-Wahaibi and Hamed Al-Shurji “pH-Sensitive Polymers for Novel Improving Reservoir Sweep and Conformance Control Applications”, SPE, Muscat, April 2008.
- 5) **Mahmoud Abdel-Goad**, “Reuse of Waste Poly(ethylene terephthalate) in the Modification of Bitumen: Viscoelastic Characterization” Minia International Conference in “ Investment in Technology”, Minia University, Egypt, May 7-9, 2007.
- 6) **Mahmoud Abdel-Goad**, “Polystyrene Composite: Preparation and Dynamic Mechanical Characterization” Minia International Conference in “ Investment in Technology”, Minia University, Egypt, May 7-9, 2007.
- 7) Francis Reny Costa, Udo Wagenknecht, **Mahmoud Abdel-Goad**, and Gert Heinrich “Rheology and Structure Kinetics of Filled Polymer Nanocomposites and Networks”, Annual General Meeting of the Section Chemical and Polymer Physics, International Symposium, Joint Symposium of the German Rheological Society (DRG) and the Division "Chemical Physics and Polymer Physics" of the German Physical Society (DPG), March 27 th to 31 th, 2006 , Dresden, Germany.
- 8) Petra Pötschke, **Mahmoud Abdel-Goad**, “Linear viscoelastic shear oscillation investigations of melt mixed blends of polycarbonate with multiwalled carbon nanotubes and polyethylene” International Symposium: Disperse Polymer Systems, Joint Symposium of the German Rheological Society (DRG) and the Division "Chemical Physics and Polymer Physics" of the German Physical Society (DPG), March 27 th to 31 th, 2006 , Dresden, Germany.
- 9) Petra Pötschke, **Mahmoud Abdel-Goad**, “Melt mixed blends of polyethylene and polycarbonated filled with multiwalled carbon nanotubes: Linear viscoelastic shear oscillation investigations” 3rd Annual European Rheology Conference, AERC2006, Crete, April 2006.

- 10) Petra Pötschke, Bernd Kretzschmar, Liane Häussler, **Mahmoud Abdel-Goad**, Andreas Janke, “Nanocomposite blends: multiwalled carbon nanotube filled polycarbonate melt mixed with montmorillonite filled polypropylene” 2nd International Symposium on "Nanostructured and Functional Polymer-based Materials and Nanocomposites" (NANOFUN-POLY), Lyon, FRANCE, May 29th to 31th 2006.
- 11) Petra Pötschke, **Mahmoud Abdel-Goad**, Ingo Alig, Sergej Dudkin, Dirk Lelling, “Melt Rheological Behaviour of Polycarbonate-Multiwalled Carbon Nanotube Composite”, 8th Austrian Polymer Meeting 2006 “The Chain of Knowledge –From Catalyst to Application” Johannes Kepler University Linz, Austria, September 20-22, 2006.
- 12) Petra Poetschke, Arup R Bhattacharyya, Bernd Kretzschmar, Andreas Janke, **Mahmoud Abdel-Goad**, Harald Goering “ Double percolation in melt mixed blends of carbon nanotube filled polycarbonate with polyolefines by creating co-continuous morphologies” NANOFUN-Poly, Areas of Excellence, Dresden, Germany, January 28th-29th 2005.
- 13) Petra Pötschke, **Mahmoud Abdel-Goad**, Sven Pegel, Jim Mark, Gert Heinrich, “HYBRID systems of polycarbonate with different carbon nanostructures prepared by melt mixing”, 8th European Symposium on Polymer Blends and Eurofillers 2005, Bruges, Belgium, May 9 -12, 2005.
- 14) Francis Reny Costa, **Mahmoud Abdel-Goad**, Udo Wagenknecht and Gert Heinrich, “Nanocomposites Based on Polyethylene and MgAl-Layered Double Hydroxide: Rheological Characterization”- PPS-21, Polymer Processing Society Annual Meeting and 21st Anniversary-Leipzig, Germany, June 19 – 23, 2005.
- 15) BethSatapathy, Ulrike Staudinger, **Mahmoud Abdel-Goad**, Mahandra Thunga, Roland Weidisch ,R. Lach, Kor Knoll, “Correlation between Morphology, Rheological Properties, and Fracture Behavior of Binary Triblock Copolymer Blends”, PPS-21, Polymer Processing Society Annual Meeting and 21st Anniversary - Leipzig, Germany, June 19 – 23, 2005.
- 16) Petra Pötschke, Bernd Kretzschmar, Liane Häussler, **Mahmoud Abdel-Goad**, Andreas Janke, “Use of carbon nanotube filled polycarbonate in blends with montmorillonite filled polypropylene” conference of carbon nanotube (CNT)-Polymer Composites, Hamburg, Germany, Sep 4.-7, 2005.
- 17) Petra Pötschke, **Mahmoud Abdel-Goad**, Bernd Kretzschmar, Liane Häussler, Andreas Janke, “Multiphase Blends of Nanocomposites of Polycarbonate with Carbon nanotubes and Polypropylene with Montmorillonite”, 8th European Symposium on Polymer Blends and Eurofillers 2005, Bruges, Belgium. May 9-12, 2005.
- 18) **Mahmoud Abdel-Goad**, Petra Pötschke, James Mark, and Gert Heinrich “Preparation and Characterization of Polymer Nanocomposites Based on Expanded Graphite”- PPS-21, Polymer Processing Society Annual Meeting and 21st Anniversary - Leipzig, Germany, June 19 – 23, 2005.
- 19) Ulrike Staudinger, B. Satapathy, Roland Weidisch, **Mahmoud Abdel Goad**, Kor Knoll, Andreas Janke, “Influence of Molecular Architecture of Binary S-S/B-S Triblock Copolymers on Rheological Properties and Fracture Behaviour”- PPS-21, Polymer Processing Society Annual Meeting and 21st Anniversary - Leipzig, Germany, June 19 – 23, 2005.

- 20) Francis Costa, **Mahmoud Abdel-Goad**, Udo Wagenknecht, and Gert Heinrich “Structural Kinetics in Filled Elastomers and PE/LDH Composites”, Kautschuk-Herbstkolloquium, Hannover, Germany, Nov 10-11, 2004.
- 21) **Mahmoud Abdel-Goad**; Petra Pötschke: “Rheological Characterization of Melt Processed Polycarbonate-multiwalled Carbon Nanotube Composites” - 40th IUPAC International Symposium on Macromolecules (MACRO 2004), Paris, France, July 04-09, 2004.
- 22) **Mahmoud Abdel-Goad**, Petra Pötschke, “Rheological Characterization of Melt Mixed Blends of Polycarbonate - multiwalled Carbon Nanotube Composites with Polyethylene”, Internationale Fachtagung Polymerwerkstoffe (11) 2004. - Halle/Saale, Germany, 29.09- 01.10.2004
- 23) Brend Kretzschmar, Doris Pospiech, Andreas Leuteritz, M. Willeke, **Mahmoud Abdel-Goad**, Dieter Jehnichen, “Developing New Concepts to Enhance the Stiffness/toughness Properties” Proceedings, Nanocomposites 2004. - Brüssel, Belgium, March 17- 18, 2004.
- 24) Petra Pötschke, **Mahmoud Abdel-Goad**, Ingo Alig, S.Dudkin, D.Lellinger, “Rheological and Dielectrical Characterization of Melt Mixed Polycarbonate - Multiwalled Carbon Nanotube Composites”- PPS-20, Polymer Processing Society Annual Meeting and 20th Anniversary - Akron, Ohio, USA, June 20 – 24, 2004.
- 25) Petra Poetschke, Arup Bhattacharyya, Andreas Janke, **Mahmoud Abdel-Goad**, Harald Goering, “Melt mixed multiphase blends with carbon nanotube filled polycarbonate” American Institutes of Chemical Engineers (AIChE) Annual meeting, Austin Convention Center, Austin, TX, USA, Nov.6-12, 2004.
- 26) Brend Kretzschmar, Doris Pospiech, Andreas Leuteritz, **Mahmoud Abdel-Goad**, Dieter Jehnichen, Andreas Janke, “Nanocomposites with layered silicates based on polyolefines”, NanoPol 2004. - Smolenice, Slovakei, Dec.13 – 14, 2004.
- 27) **Mahmoud Abdel-Goad**, Brend Kretzschmar, Doris Pospiech, Andreas Leuteritz, Dieter Jehnichen, “Rheological Characterization of Melt Compounded Polypropylene/clay nanocomposites”- Internationale Fachtagung Polymerwerkstoffe (11) 2004. - Halle/Saale, Germany, 29.09- 01.10.2004.
- 28) Petra Pötschke, Arupe Bhattacharyya, Brend Kretzschmar, Andreas Janke, **Mahmoud Abdel-Goad**, H.Goering, “Ausnutzung des Konzeptes der doppelten Perkolation in Schmelzegemischten Blends aus Polyolefinen mit Kohlenstoff-Nanoröhren gefülltem Polycarbonat durch die Erzeugung kokontinuierlicher Blendstrukturen”- Internationale Fachtagung Polymerwerkstoffe (11) 2004. - Halle/Saale, Germany 29.09 - 01.10.2004
- 29) **Mahmoud Abdel-Goad**: “Rheological Characterization of Bitumen-waste poly(ethylentetraphthalate)” 40th IUPAC International Symposium on Macromolecules (MACRO 2004). – Paris, France, July 04-09, 2004.
- 30) Petra Pötschke, Arupe Bhattacharyya, **Mahmoud Abdel-Goad**, Andreas Janke, Heins Goering, “Multiphase Melt Mixed Polymer Blends Containing a Carbon Nanotube Filled Phase”-40th IUPAC International Symposium on Macromolecules (MACRO 2004) - Paris, France, July 04-09, 2004.

- 31) **Mahmoud Abdel-Goad**: “Rheological Characterization of Polyisobutylene” - 40th IUPAC International Symposium on Macromolecules (MACRO 2004). - Paris, France, July 04-09, 2004.
- 32) Petra Pötschke, Arupe Bhattacharyya, Andreas Janke, **Mahmoud Abdel-Goad**, Ingo Alig, A. Leonhardt, C.Täschner, M.Ritschel, S.Roth, , B.Hornbostel, J.Cech, “Melt Mixing as Method to Disperse Carbon Nanotubes into Thermoplastic Polymers”, XVIIIth Internation Winterschool, Euroconference on Electronic Properties of Novel Materials: Molecular Nanostructures. - Kirchberg/Tirol, Austria, March 06 - 13.2004
- 33) **Mahmoud Abdel-Goad**, Petra Pötschke, “Rheological Characterization of Melt Processed Polycarbonate-multiwalled Carbon Nanotube Nanocomposites”, 6th IPF Colloquium Dresden, Germany, Nov.18-19, 2004.
- 34) Petra Pötschke, Arupe Bhattacharyya, Brend Kretzschmar, Andreas Janke, **Mahmoud Abdel-Goad**, H. Goering, “Double Percolation in Melt Mixed Blends of Carbon Nanotube Filled Polycarbonate with Polyolefines by Creating Co-continuous morphologies”, 6th IPF Colloquium Dresden, Germany, Nov.18-19, 2004.
- 35) **Mahmoud Abdel-Goad**, Petra Pötschke, Jim Mark, Gert Heinrich, “Preparation and Characterization of Polymer Nanocomposites Based on Expanded Graphite”, 6th IPF Colloquium Dresden, Germany, Nov.18-19, 2004.
- * **BEST POSTER AWARDED in 2005:**
 Petra Pötschke, **Mahmoud Abdel-Goad**, Bernd Kretzschmar, Liane Häussler, Andreas Janke, “Multiphase Blends of Nanocomposites of Polycarbonate with Carbon nanotubes and Polypropylene with montmorillonite” **was awarded as the best poster** at 8th European Symposium on Polymer Blends and Eurofillers 2005, **Bruges, Belgium**, May 9-12, 2005.
- **Refereed Conference papers (1994-2002; oral presentation):**
- 36) **Mahmoud Abdel-Goad** ; Reda Ghoneem “A new technique for the synthesis of Polyvinylchloride” International Conf. of Engineering Materials, El-Minia Uni., Egypt, April 7-10, 2002.
- 37) **Mahmoud Abdel-Goad** “Rheological properties of Polyethylene”- International Conf. of Engineering Materials, El-Minia Uni., Egypt, April, 7-9, 2002.
- 38) **Mahmoud Abdel-Goad** “Viscoelastic Properties of polyvinylacetate”- International Conference for Pollution, Alexandria Uni., Egypt, Dec., 21-23, 2002
- 39) **Mahmoud Abdel-Goad** “Viscoelastic properties of high molecular weight polyethylene”, International Conf of New Materials Developments, Egyptian society of Chemical Engineers, Cairo, Egypt, Oct.20-22, 2001.
- 40) **Mahmoud Abdel-Goad**; Hassinen Asfour ; Mahmmmed Zakria “Production of Light Bricks by Using Some Resins” International Conf. of Building Material, Cairo Uni., Egypt, April 15-17, 2000.
- 41) **Mahmoud Abdel-Goad**; Hassinen Asfour, “Use of some Polymeric Materials in the Brick Industry”, Minia International Conference “MICATE99”, El-Mina Uni.,Egypt, March 2- 5, 1999.
- 42) **Mahmoud Abdel-Goad**; Hassinen Asfour, “Economic of Energy in Brick Manufacture”, 2nd International Conference of Material Science, El-Mina Uni., Egypt, Oct.10-12, 95.
- 43) **Mahmoud Abdel-Goad**; H.Asfour “Resin Addition in Bricks”, First International Conference of Material Science, El-Mina Uni., Egypt, April 19-21, 94.

14. Technical Reports

1. Rashid Al-Maamari, **Mahmoud Abdel-Goad** and Abdul-Aziz Al-Hashmi “ Polymer Technology” Research Project-Progress Report, Petroleum Development Oman, Muscat, Oman, March, 2010.
2. **Mahmoud Abdel-Goad**, Ashraf Al-Hinai and Baba Jibril “Evaluation of non-intrusive Hydro steel technique for detecting sour corrosion” Research Project-Final report, Petroleum Development Oman, Muscat, Oman, March 2010.
3. Rashid Al-Maamari, **Mahmoud Abdel-Goad** and Abdul-Aziz Al-Hashmi “ Polymer Technology: PartII” Research Project-2nd Report, Petroleum Development Oman, Muscat, Oman, June, 2009.
4. **Mahmoud Abdel-Goad**, Ashraf Al-Hinai and Baba Jibril “Evaluation of non-intrusive Hydro steel technique for detecting sour corrosion”, Research Project-Progress report, Petroleum Development Oman, Muscat, Oman, April, 2009.
5. Rashid Al-Maamari, **Mahmoud Abdel-Goad** and Abdul-Aziz Al-Hashmi “ Polymer Technology:PartI” Research Project-1st Report, Petroleum Development Oman, Muscat, Oman, Jan, 2009.
6. **Mahmoud Abdel-Goad**, Ashraf Al-Hinai and Baba Jibril “Microcor advanced electrical resistance technique for corrosion monitoring” Research Project-Progress report, Petroleum Development Oman, Muscat, Oman, Dec., 2008.
7. **Mahmoud Abdel-Goad** and Rashid Al-Maamari “clean energy from coal” Al-Shoura council, Oman, Nov.2008.
8. **Mahmoud Abdel-Goad**, “Detection the corrosion in the kitchen of Omani air” Primary Court, Muscat, Oman , March 2008.
9. Yahya Al-Wahaibi, Talal Al-Wahaibi and **Mahmoud Abdel-Goad** “pH-Sensitive Polymers for Novel Improving Reservoir Sweep and Conformance Control Applications” Research Project-1st Report, Petroleum Development Oman, Muscat, Oman, April, 2007.

15. University and Community Service

A) Services at SQU

- 1) I contributed in establishment of postgraduate study program in the college of engineering through 4 years member in the college committee of postgraduate studies and research.
- 2) I did participate actively in ABET accreditation for Petroleum and Chemical program and both of them are accredited.
- 3) Participating in the workshop “ sustainable program assessment” 31.03-1.04.10.
- 4) Preparing for the Retreat day, March 2010.
- 5) Safety officer for College of Engineering activities.
- 6) Contribution (preparation & presentation) in the visit to UAE university for the possibilities of research collaboration, May 19, 2009.
- 7) Member in committee to develop the proposal for the Research Chair in Nanotechnology at SQU for Desalination.
- 8) Departmental Board Secretary through 2005/2006 and the department representative in Technical committee in 2005/2006
- 9) Department representative in Technical Committee 2005/2006
- 10) Member in the college Postgraduate and Research studies committee 2006-2010.
- 11) Secretary of the college Postgraduate studies and Research committee in academic year 2008-2009.

- 12) Reviewer & assessor for the projects of students in the Engineering gathering day , April 2008.
- 13) Contribution by two posters in the university open day, May 2, 2008 and 2009.
- 14) Modification of the storage of chemicals in the chemicals store
- 15) Developing Lab: Research/teaching lab

I did contribution in developing Petroleum& Chemical Engineering laboratory by purchasing updated tools. 7 modern instruments were purchased with total cost around one million US Dollars from our industrial research projects. The equipments are:

- Rheometer
- Coreflood rig
- Carbon Analyzer
- Hydrosteel® (Ionscience)
- Corrosometer® conventional ER probe
- Corrater® LPR probe
- Microcor® advanced ER probe

In addition to the above mentioned devices fabrication of new experimental set up is made to conduct the corrosion experiments in the chemical Eng.lab.

B) Community services (in Sultanate of Oman):

- 1) **Consultant** for the Ministry of Justice of Sultanate of Oman (Appealing Court) as an expert from SQU to evaluate and characterize the materials which was supplied to Oman Air from Bra'mey company.
- 2) Participating in "International Conference for the Research Strategy for Sultanate of Oman", October 21-23, 2007.
- 3) **Consultant** for A'Shoura council for the possibility of using the charcoal in Oman as a source of energy and study the expected pollution problems from using it. I submitted in Feb 2009 scientific report including environmental impacts.

C) Services at El-Minia University, Egypt

- 1) Foundation of Undergraduate program: I proposed, prepared and constructed a new BSc program based on credit hours in Petrochemicals Engineering.
- 2) Construction of Nanotechnology's Lab.
- 3) Preparation new Nano fillers from local raw materials.
- 4) Advisor for PhD and MSc students at Chemical Engineering Dept, Faculty of Eng., El Minia University, Egypt (17 Students).
- 5) Conferences organization committees
 - a) Minia 1 International Conference of Material Science, El-Mina Uni., Egypt, April 19-21, 1994.
 - b) 2nd International Conference of Material Science, El-Mina Uni., Egypt, Oct.10-12, 1995.
 - c) International Conf. of Engineering Materials, El-Minia Uni., Egypt, April, 7-10, 2002.
- 6) Exam organization committees
- 7) Assurance and accreditation committee
- 8) College board committee
- 9) College board committee for students Affairs
- 10) College board committee for research Affairs
- 11) Chairman of Chemical Eng. Dept.

*** Reviewer for 25 reputable International Journals as an example :
(Plus Member and Reviewer for Chem. Eng. Promotion committee)**

- Journal of Applied Polymer Science
- Polymer
- Iranian Polymer Journal
- International Journal of Materials and Product Technology (IJMPT)
- Composites B
- Journal of Polymers and the Environment.
- Engineering Journals

16. Invited lectures/Speaker

Title of presentation	Location	Date
Nanotechnology: Clarification and Applications	Cairo Uni.	Nov.2019
Nanotechnology: Defination and Applications	Alex.'s Library	Aug.2019
Nanotechnology: Clarification and Applications	Oceanography Instit. Alex.	Aug.2019
Medical Applications of Nanotech.	Italian Hospital, Alex	Aug.2019
Applications of Nanotechnology	Tanta University, Egypt	April2017
Nanotechnology: Eng. Applications	Faculty of Eng., Minia Uni., Egypt	Feb 2016
Nanotechnology and its applications	British University in Cairo, BUE	Nov., 2012
Nanotechnology	Cairo University, Egypt	Dec.2012
Nanotechnology in EOR	Egyptian Petroleum Research Inst.	Dec.2012
Converting waste plastics to Diesel	Eng.Tasks Group Co., ENTAG,Egy	Oct.2012
Nanotechnology	College of Eng, UAE Uni, UAE	May 19,2009
Rheological Characterization of Polymeric Materials	Chemistry Dept, Durham University, UK	Jan 11, 2005
Rheological characterization of polymer nanocomposites	Institute of polymer research, Dresden, Germany	Sep 20, 2004
Determination the degree of exfoliation in PP/nanoclay nanocomposites	Institute of polymer research, Dresden, Germany	Sep 10, 2004
Synthesis of Polyethylene	Egyptian Petrochemicals Company, Alexandria, Egypt	Nov 6, 2001
Entanglements of Long Chain Polymers	Institute of Soft Materials, IFF, Research Center Jülich, Germany	Jan 20, 2001
Development of the Heterogeneous Catalytic Hydrogenation	IFF, Research Center Jülich, Germany	July, 1999
Catalytic Hydrogenation of Polystyrene	IFF, Research Center Jülich, Germany	Jan 25, 1998

17. References

1. Prof. Richter,
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