

# Curriculum Vitae



## 1. Personal Information

**Name:** Ahmed Ibrahim Ahmed Seedahmed  
**Occupation:** Professor in Polymer and Plastics Engineering  
**Date & Place of Birth:** Wad Medani, Sudan 1961  
**Nationality:** Sudanese  
**Religious:** Muslim  
**Marital Status:** Married and father of 4 kids.  
**Languages:** Arabic (All skills: Excellent), English (All skills: Excellent), Chinese (Only talking: poor) and Germany (All skills: poor).  
**ICDL Standard Certificate:** SD 1501822, 30 Jan. 2016  
**Skype:** kmmmmseedahmed  
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## 2. Present Address:

Plastics Engineering Department, SUST, Sudan.  
**Tel. Mobile:** +249912359377  
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## 3. Qualifications

1. **PhD:** Plastics Engineering, 2005, Sudan University of Science and Technology, Sudan.  
**Thesis title:** Use of PET bottles to substitute sand in cement based mortar applications.
2. **MSc:** Computer Science and Information, 2003, University of Gezira, Sudan.  
**Thesis title:** Client – Server Database Application.
3. **Postgraduate Diploma:** Computer Science 2001, University of Gezira, Sudan.  
**MSc:** Textile Chemical Technology, 1991, University of Gezira, Sudan.
4. **Thesis title:** Henna Cotton Dyeing Properties.  
**BSc:** Textile Engineering Technology, 1988, Second Class Division one, University of Gezira, Sudan.  
**Thesis title:** Evaluation of the waste Impact in weaving preparation.

## 4. Professional Experience

- **Teaching Assistant** –Textile Engineering Department – SUST May 1991
- **Lecturer** –Textile Engineering Department – SUST Dec. 1991
- **Lecturer** –Textile Engineering Department – U of G Feb. 1992
- **Assistant Professor** - Textile Engineering Department – U of G March 1996
- **Assistant Professor** - Textile Engineering Department – SUST July 2000

- **Assistant Professor** - Plastic Engineering Department – SUST July 2005
- **Associate Professor** - Plastic Engineering Department – SUST March 2006
- **Associate Professor** - Petroleum Engineering Department – Misurata University NOV. 2103 up to July 2014.
- **Associate Professor** - Plastics Engineering Department – SUST Sept. 2014 up to August 2016.
- **Professor** - Plastics Engineering Department – SUST Sept. 2016 up to date.

## **5. Educational and Academic Partnership**

### **a. Undergraduate profile:**

Teaching Undergraduate courses since 1991 up to date in four major areas:

- ✓ Textile Chemical Engineering and Technology
- ✓ Polymer chemical Engineering.
- ✓ Polymers and Plastics Recycling.
- ✓ Computer applications in the above mentioned areas.

I had taught the following Courses multiple times:

- **Textile Dyeing and Finishing**
- **Textile Wet Processing**
- **Physical Chemistry.**
- **Thermodynamics.**
- **Polymerization chemistry and Technology.**
- **Polymeric and plastic materials.**
- **Polymer processing.**
- **Plastics Mixing and Compounding.**
- **Plastic and Polymers recycling.**
- **Thermosetting Materials.**
- **Plastics Reinforcement**
- **Basic Computer Mathematics.**
- **Computer programming** using Basic/Pascal/C/C++/ MatLab (for engineering and computer science students)
- **Computer applications** in the polymer Engineering and Technology, Textile Engineering, Petroleum Engineering fields.)
- **Fluid Mechanic.**
- **Corrosion in Oil Industry.**

### **b. Postgraduate profile:**

- Teaching Postgraduate 1991 until now in the Textile , Plastics and Chemical Engineering Areas for the following courses
  - **Color Physics** for Textile Engineering
  - **Textile Finishing Technology** for Textile Engineering..
  - **Computer Architecture:** postgraduate diploma for computer science students.

- **Data structure using C++:** postgraduate diploma for computer science students.
- **Computer Graphics using C++:** postgraduate diploma for computer science students.
- **Computer applications** in the polymer Engineering and Technology.
- **Polymer Compounding and formulations** for polymer and Plastics Engineering.
- **Analysis of Polymer Composites** for polymer and Plastics Engineering.
- **Advanced Polymer material and applications** for PhD in chemical engineering by courses and research, Karary University).
- **Quality Assurance in Civil Engineering Industry** for MSc in Civil Engineering.
- **Using MS Project in Project Management** for MSc in Engineering Projects Management.
- **Using MS Project in Project Management** for MBA

### c. Assessment and Quality Enhancement Profile

- **Chair of the College of Engineering Assessment and Accreditation Committee** 2006 until July 2012:  
**Targets:** foundation of the self-assessment culture and establishing the processes necessary for the launch of the ABET assessment and accreditation model in the College).  
**Activities:**
  - ✓ Setting the executive structure for assessment by establishing departmental assessment committees (DACs), students committees and industrial advisory committees.
  - ✓ Collection and documentation of the relevant information for different programs and particulars.
  - ✓ Maintain and equip the college web page as an official media to host the assessment activities.
  - ✓ Train the staff and students to positively participate in the assessment activities.
  - ✓ Sets work plans for each semester including: distribution of assessment forms for all the stockholders (students, instructors, graduates, employers.....etc.)
  - ✓ Collection of data for analysis.
  - ✓ Write down the assessment report for the performance in each session.

#### **Achievements:**

- ✓ College of engineering is number one among the other 20 sisters in doing the self-assessment regularly.
- ✓ Self-Assessment Report (SED) for the Electrical and Electronic Engineering programs was submitted to the UNDP project: Enhancement of Quality Assurance and Institutional Planning in Arab Universities, 2008. Luckily enough the programs scored average of good for all criterions and rank the programs as no two among 14 different universities.
- ✓ Participated among very few colleges in the university in the first self-assessment and internal auditing session 2011.

- ✓ College members become references for assessment and quality assurance for other colleges inside and outside the university.
  - ✓ I Participate on behalf of the university in:
    - **The 2<sup>nd</sup> International Arab conference for Quality Assurance in Higher Education, Manama, 4-5 April 2012**, and paper presented: **Use of Students Assessment to Develop the Teaching Staff Performance.**
    - **Arab Sub Region Seminar on Intellectual Property Data Bases Access Methods, Amman, Jordan, 3 – 6 July 2012**
    - **AROQA Fifth Annual Conference, Tunis, Tunisia ,12 - 13 December, 2013**, paper presented: **Description of the educational program and its components according to the Arabic Universities Union format: SUST case study.**
  - ✓ I Held more than 40 public training and orientation lectures in almost all the colleges in addition to staff of 10 universities.
  - **Member of the SUST Assessment and Accreditation Committee 2007 until July 2012.**
- Targets:**
- ✓ To help and pursue with confidence the assessment and quality assurance projects in the university.
  - ✓ To build and supervise the assessment and quality assurance units inside the colleges.
  - ✓ Sets calendars for the assessment activities.
  - ✓ Sets annual plans and monitors to secure smooth execution.
  - ✓

#### **Achievements**

- ✓ Founded the assessment structure in the university.
- ✓ Publish the road map of the assessment project.
- ✓ Train almost all the staff to facilitate the quality enhancement.
- ✓ Participate in the first Arab Organizational assessment held by the Arab Universities Union in 2010 and scored very good in the assessed parameters.
- ✓ Restructuring the Assessment unit into Deanship.

## **6. Supervision of Postgraduate Students**

- i. Supervision as main supervisor:
  1. Graduated (3 PhD Chemical Engineering and 2 PhD in Plastics Engineering),
  2. Graduated (6 MSc in Textile Chemical Technology and 3 MSc in Plastics Engineering)
- ii. Currently, Supervising 4 PhD students (2 plastic Engineering, 1 Textile Engineering and 1 Chemical Engineering. In addition to 5 MSc students.
- iii. Internal Examiner for 31(6 PhD +25 MSc) postgraduate students

## **7. Research projects:**

- **Conversion of Plastic Waste into Fuels and Energy(funded by MOHE, Sudan, May 2017)**
- **Development and enhancement of PP properties**
- **Composite Design and Analysis**

## **8. Administrative Experience**

- **Examination Coordinator** Faculty of Science and Technology U of G 1996 – 1997.
- **Textile Technology Head department** U of G 1997 -1999.
- **Deputy Dean Faculty of Textiles** U of G 1999 – 2000.
- **Deputy Dean College of Engineering SUST (North Campus)** April 2006 – June 2010
- **Deputy Dean College of Engineering SUST (Administration)** July 2010 – Nov. 2010.
- **Dean College of Engineering SUST** Dec. 2010 June 2012(most important achievements are: restructuring of the college(13 departments, 8150 student) into six schools, in addition to signing Cooperation agreements with Belgrade University, Serbia and Reading University, UK)
- **Chair of the College of Engineering Assessment and Accreditation Committee** 2006 until 2010:
- **Chair of the committee to introduce Chemical Engineering Department** within SUST 2007 according to which the department was approved and started in 2008.
- **Chair of the College Committee for the Curriculum Development** 2008.  
Revision of the curriculum of the 13 departments so as to be updated according to international standards. A maximum credit hours was reduced to 180 instead of 200 -220.
- **Dean College of Engineering UMST** April. 2013 November 2013(most important achievements are: adding 3 programs viz. chemical Engineering, Electrical Engineering and Laser Engineering. In addition to develop the curriculum of the existing programs.
- **Dean of Scientific Affairs** Gezira College of Technology Sep. 2014 until May 2016 (most important achievements are: develop the curriculum of the existing programs, revising the academic regulations, appointment of teaching staff and prepared the upgrading profile to a university).

## **9. Professional Membership**

- Member of the Society of Plastic Engineers(SPE)
- **Fellow** Member of the Sudanese Engineering Society (**SES**) 2010.
- **Consultant Engineer** of the Sudanese Engineering Council (**SEC**) **2010**.
- Member of the Sudanese Engineering Council(**SEC**) board Dec. 2010 until July 2012
- Member of the **SEC** Academic Committee Dec. 2010 until July 2012
- **Member of SUST Senate** 2005 until July 2012

- **Member of SUST Senate Academic Affairs Committee** 2006 until July 2011(committee responsible for review and approval of the academic projects and plans to be passed to the university senate).
- **Member of MOHE Engineering and Technology Studies Committee** 2010 until July 2012(committee responsible for review and approval of the universities academic projects and plans to be passed to the MOHE Minister).
- **Member of the SUST Strategic Plan Committee** 2010 until July 2010  
I had participated effectively in setting the university strategic plan (2011 -2016) and approval of the strategic plans of the colleges.
- **Member of the SUST Assessment and Accreditation Committee** 2007 until July 2012.

## 10. Extra Curricular Activities

- Expert Consultant Researcher in the polymer and plastics area at the Materials Research Center(MRC), SUST, Sudan, Jan. 2105 until now
- Member of the **SEC** for the Assessment of University of Gezira textile Diploma Programs 2007
- Member of the **SEC** for the Revision of University of Khartoum Engineering Programs October 2007
- Member of the Sudanese Measurements and Meteorology Organization (**SMMO**) Plastic and Rubber Committee 2009 until November 2013.
- Presented Talks and Lectures in quality assurance topics to the following groups:
  - Neelain University Teaching Staff.
  - Delang University Teaching Staff.
  - University of Gezira Teaching Staff (twice).
  - College of Animal Production (KUKU, Twice).
  - College of Business Studies.
  - College of Music and Drama.
  - College of Sports and physical Training.
  - College of Petroleum Engineering and Technology.
  - Faculty of Engineering, Misurata University.
- Member of Minister of Energy Consultant Council 2010 - 2012

## 11. Publications

1. Abubaker Saeed Babiker , Dr. **Ahmed Ibrahim Ahmed**, (2016), Extraction of Copper by using Hydrometallurgical Process from Malachite Ore, **International Journal of Engineering, Applied and Management Sciences Paradigms**, 1(42), 108 – 117.
2. Ibrahim Y.I, **Seedahmed A.I.**, , (2016), Using Eva Foam Waste as the Constituent of Light Weight Concrete Mixture for Construction Application, **International Journal Of Engineering Sciences & Research Technology** 5(12), 332-338.

3. Alebeid O. K., Tao Zhao, and **Seedahmed A.I**, (2015), New Approach for Dyeing and UV Protection Properties of Cotton Fabric Using Natural Dye Extracted from Henna Leaves, **FIBRES & TEXTILES in Eastern Europe**, 23, 5(113), 60-65.
4. Alebeid O. K., Tao Zhao, and **Seedahmed A.I**, (2015), Dyeing and Functional Finishing of Cotton Fabric Using Henna Extract and TiO<sub>2</sub> Nano-sol, **Fibers and Polymers**, 16(6), 1303-1311.
5. Hassanien M S, **Seedahmed A.I.**, (2015), Mechanical and Rheological Properties of Polypropylene(PP)/Linear Low Density Polyethelene(LLDPE) Blend Filled with Talc and Calcium Carbonate Compositions, **International Journal of Engineering Sciences and Research Technology**, 4(1), 383 – 387
6. Alajail A.I., **Seedahmed A. I.**, Karama B A. and Shaneb O. A., (2014), A framework for Conversion of Plastic Waste into Fuels and Chemicals: A review of the waste current situation in Libya, **Applied Mechanics and Materials**, **664**, **80 – 86**.
7. Dafa Alla A.M. and **Seedahmed A. I.**, (2014), Identifications of Electrical and Electronic Equipment Polymer Waste types using MFI, density and IR, **International Journal of Technical Research and Applications** 2(5), 1-3.
8. Abdalla A. M., Mohammed D. H. and **Seedahmed A. I.**, (2014), Simulation of pressure drop for combined tapered and non-tapered die for polypropylene using ansys Polyflow, **IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE)**, 1(3), 22-29.
9. **Seedahmed A.I**, (2014), Cotton Stalks Fiber-Reinforced Polypropylene Composites: Comparison of Experimental Data and Calculated Tensile Strength and Elastic Modulus, **International Journal of Engineering Science and Innovative Technology (IJESIT)**, .3(3), 108-115.
10. Shalby M. S. and **Seedahmed A. I.** (2014), Evaluation and Improvement of Mechanical, Thermal and Rheological Properties of Polypropylene (PP) using Linear Low Density Polyethylene (LLDPE), **International Journal of Engineering Science and Innovative Technology (IJESIT)**, 3(3), 135- 141.
11. Garib Alla M. M., **Seedahmed A. I.**, and Karama B A, (2014), Conversion of Plastics Waste to Liquid Fuel, **International Journal of Technical Research and Applications**, 2(3), 29-31.
12. Abdalla A. M. and **Seedahmed A. I.**, (2013), Use of Least Square Procedures and Ansys Polyflow Software to Select Best Viscosity Model for Polypropylene, **International Journal of Engineering Science and Innovative Technology (IJESIT)**, 2(6), 424-431.

13. **Seedahmed A. I.** and, Mohammed A. A., (2006), Use PET Bottles Waste to Partially Substitute Sand in some Cement-based Mortar Applications, **Sudan Engineering Society JOURNAL**, 52(47), 9 – 13.
14. **Seedahmed A. I.**, (August 1995), Reactive Dyes synthesis, Indian Textile Journal, 19 - 24.

## 12. Published Textbooks

1. **Seedahmed A. I.** and Haroun H. E., (2013), Chemistry and Technology of Coloration, Arabic Book, Sudan, SUST printing press.
2. **Seedahmed A. I.**,(2012) Textile Fibers Technology, Arabic Book, Sudan, SUST printing press.

## 13. Seminar, & Workshops and Conferences

- AROQA 8th Annual Conference 2016, "Enabling Regional Quality in Education, 1-2/12/2016, Beirut, Lebanon.
- "6th International Workshop on Applications of Nano-science and Nanotechnology(IWANN2016), Nanotechnology Solutions for Water filtration, UNAM, Bilkent University, Ankara, Turkey 11 – 22 July 2016
- Plastics Compounding Congress(PCC) collaboration seminar Karlsruhe Institute of Technology, 4 – 8 April, Germany
- International Conference, Aachen Polymer Optics Days, April 12 - 13, 2016 Aachen, Germany
- The International Conference On Business Strategies, Innovative Additives And Process Optimization For Thermoplastics 18 - 20 April 2016 Cologne, Germany
- Description of the educational program and its components according to the Arabic Universities Union format: SUST case study, AROQA Fifth Annual Conference, Tunis, Tunisia ,12 - 13 December, 2013
- Arab Sub Region Seminar on Intellectual Property Data Bases Access Methods, Amman, Jordan, 3 – 6 July 2012
- Use of Students Assessment to Develop the Teaching Staff Performance, a paper presented to the 2<sup>nd</sup> International Arab conference for Quality Assurance in Higher Education, Manama, 4-5 April 2012
- Visit to University of Belgrade, 18 – 24 March 2012 to set cooperative mutual relations between the two universities.
- Institutional Assessment Training Course in the Union of the Arab Universities Indicators SUST 2009
- Lecture on Plastic Recycling SSMO Kosti 2009
- Workshop for the assessment of BEZEMA products Switzerland July 2005
- Seminar on Engineering Industrial Training U of G 1999
- Workshop on linking Engineering Research to Industrial Needs U of G 1997
- Workshop on Arabitization of Engineering Terminology SUST 1991



## 14. Training

- 6 days Training course in Dyestuff Manufacturing ,Testing and Application at BEZEMA Company s Switzerland July 2005
- Practical Training Course in Dyestuff Manufacturing, China Textile University, China, Sep. 1993 – July 1995.

## 15. References

- **Prof Tajeldeen Osman Mohieldeen**, University of Bahrain, assistant of the University President for quality and Excellency. Email: [tmohield@admin.uob.bh](mailto:tmohield@admin.uob.bh), Mobile:+ 97336151664 or +97339762833
- **Prof Gurashi Abdalla Gasmelseed**, University of Science and Technology, Chemical Engineering Department. Email: [gurashigar@hotmail.com](mailto:gurashigar@hotmail.com), Mobile:+ 00249919634134
- **Prof Nasereldeen Ahmed Kabashi**, International Islamic University, Department of Biotechnology Engineering, Malaysia, Email: [nasereldin@iium.edu.my](mailto:nasereldin@iium.edu.my), Mobile: +603-61964524 Fax: +603-61964442