

25th November 2016



Name : *Salim F. Bamsaoud* (سالم فرج عوض بامسعود)
Qualification : M.Sc., Ph.D (Physics)
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1. Current Academic Position

- i- Manager and Trainer of Zewail program (hands-on training in nanoscience and their application in thin films, sensors , agriculture and microbiology), Hadhramout Foundation for Invention, under the supervision of Faculty of Science, Hadhramout university, Mukalla ,Hadhramout December 2016.
- ii- Manager and Trainer of Ibn Al Hytham program (training of physics teacher on curriculum experiments) under the supervision of Ministry of Education, Mukalla ,Hadhramout November 2016.
- iii- Scientific and academic Officer (By Vote), Syndicate of faculty members and their assistant ,Hadhramout university.(2016....)
- iv- *Editorial Board* , Journal of Material Science and Applications , American Association for Science and Technology (AASCIT), USA. (January 2015...).
- v- *Member of the Board of Trustees* –Foundation of Hadhrami Researcher, Mukalla.
- vi- *Head of Department*, Physics Department , Faculty of Science, Hadhramout University (September 2014...).
- vii- *Member of the Board of Trustees* –Hadhramout Foundation of Invention, Mukalla, Yemen.
- viii- *Director*, Research Center for Natural and Applied Science, Hadhramout Foundation for Invention(2014-....)
- ix- Head of Quality Assurance Committee, Physics department, Faculty of Science, Hadhramout University.

25th November 2016

- x- Member of Entrance Examinations Committee, Hadhramout University (May 2013-.....)..
- xi- Assistant Professor at Physics Department, Faculty of Science, Hadhramout University (January 2013-.....).
- xii- Assistant Professor at Electronics and Communication Engineering Department, Engineering College, Hadhramout University (September - December, 2012).
- xiii- *Director*, Al-Gemmah Institute for Foreign Language, Ad-Dis Branch (1999-2003).

2. Education

Sr. No	Course	Institution	Year	Details
1	Ph.D.	Department of Physics, Faculty of Science, University of Pune	2007-2012	<i>Synthesis, Characterization of Nanostructured SnO₂ Using Novel Single Step Thermal Decomposition Route: Application as Hydrogen and Acetone Resistive Sensors</i>
2	M.Sc.	Department of Physics, Faculty of Science, University of Pune	2003-2006	Special Subject: Bioelectronics Title of M.Sc. dissertation: <i>"Optical fiber as a force sensor"</i>
3	B. Sc.	Department of Physics, Aden University	1994-1998	College of Science, Arts and Education, Hadhramout , Mukalla.

3. Training and Courses

Sr. No	Training & Courses	Organization/Institution	Year	Duration
1	Training of Trainers (TOT)	Hadhramout Foundation for Invention, Mukalla, Hadhramout.	2015	14 th - 23 th Nov.
2	Cleanroom Training for Critical and Sustainable Technologies: SENSORS	UNAM, Bilkent University, Ankara, TURKEY	2014	16 th -27 th June
3	Measurement and Evaluation (Advance)	Academic Development Center, Hadhramout University, Mukalla,	2013	14 th -15 th May
4	Design of University`s Curriculums and Programs (Advance)	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	8 th -9 th May
5	Preparation for learning Outcomes of Academic Programs	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	22 nd April
6	Effective Teaching	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	9 th -10 th April

25th November 2016

7	Circular Evaluation of Academic Programs	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	30 th March- 1 st April
8	Measurement and Evaluation	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	26 th -27 th March
9	Design of University`s Curriculums and Programs	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	5 th -6 th March
10	Language Skills for Faculty Member	Academic Development Center, Hadhramout University, Mukalla, Yemen	2013	20 th -21 st February
11	Cleanroom Training for Critical and Sustainable Technologies: Lab-on-a-Chip	UNAM, Bilkent University, Ankara, TURKEY	2012	25 th June-8 th July 2012
12	Writing Skills	Institute of Advanced Studies in English, University of Pune, Pune, India	2006	60 hours
13	Pre-Toefl Course	AMIDEAST, Sana`a, Yemen	2000	50 hours

4. Teaching Experience (Subject/Course Taught): 10 Years

- Designer and Trainer of Solar Energy course and their application in Home system and water pumping, Hadhramout Foundation for Invention, Mukalla, Yemen.
- Fluid Mechanics (4th year , Mathematics Department, Faculty of Science, Hadhramout University, Yemen)
- General Physics (2nd Year, Engineering College, University of Science and Technology, Yemen)
- Biophysics (2nd Year, Pharmacy Department, Arrazi University, Mukalla)
- Circuit Theory (3rd Year, Physics Department, Faculty of Science ,Hadhramout University)
- Electronics Materials (2nd Year, Computer Science department, Faculty of Science, Hadhramout University, Yemen).
- Electronics Circuits (3rd Year, Physics department, Faculty of Science, Hadhramout University, Yemen).
- General Physics (1st Year, Engineering College, Hadhramout University, Yemen).
- Basic Physics Laboratory (Girls' College, Hadhramout University, Yemen).
- Basic Physics Laboratory (College of Medicine, Hadhramout University, Yemen).
- Basic Physics Laboratory (Marine Biology and Science of Environmental, Hadhramout University, Yemen).
- Basic Physics Laboratory (Engineering College, Hadhramout University, Yemen).
- Physics for final year of secondary school (Dar Al-Fikir Modern schools, Mukalla, Yemen).
- Calculus -final year of secondary school- (Al-Gemah Institute, Mukalla, Yemen).

5. Research Interest/Specialization

25th November 2016

- Synthesis and characterization of metal and metal oxide.
- Nanomaterials.
- Optical fiber applications.
- Sensors.
- Bio-voltaic cell.
- Solar energy.
- Super-Capacitors

6. Honours & Awards:

- **First Prize**, Babker Prize for Invention **2014**, University of Science and Technology, Sana`a, Yemen.
- **Selected** by the organizers of the 4nd International Workshop on Clean Room to present **Yemen** in the workshop which was held in **National Nanotechnology Research Centre (unam), Bilkent University, Ankara, Turkey**, 16th-27th June 2014.
- Certificate of Thanks and Appreciation issued by **Students (Fifth Batch 2012-2013)** of Physics Department, **Faculty of Science, Hadhramout University, Yemen**.
- **Nominated and Selected** by the organizers of the 2nd International Workshop on Clean Room to present **Yemen** in the workshop which was held in **National Nanotechnology Research Centre (unam), Bilkent University, Ankara, Turkey**, 25th June-8th July 2012.
- Nominated by committee of **Who's Who in the World (USA)** to be listed, for the year of 2012.
- **Nominated** by National Research Centre (NRC), Cairo, **EGYPT**, to represent Yemen at workshop "**Application of Nanotechnology in Industry: Opportunity of Integration Among Islamic Development Bank Member States**", which was held in Cairo, **EGYPT** 29th-31st Jan 2012.
- Invited by the organized committee of the **EPS Montreal International Renewable Energy Forum 2011, Canada**, to give an invited talk based on recent published papers.
- A complimentary **full membership** offered by American Nano Society, USA.
- Dr. N. G. Patel third prize for **Best Oral Presentation** in the 14th National Seminar on Physics and Technology of Sensor.
- **Sponsored Fellowship** from Hadhramout University (HUST) to pursue Ph. D. program in Faculty of Science, Pune University, Pune, INDIA.
- **1st rank player in Table Tennis** at Physics department, university of Pune for the academic year 2004/2005.
- **The Indian Council for Cultural Relations (ICCR) Scholarship**, Embassy of India, Sana`a, Yemen, to pursue M.Sc. in INDIA.
- Certificate of thanks and appreciation issued by vice dean of **engineering college, Hadhramout University 2002**.
- Certificate of thanks issued by **vice chancellor** of Hadhramout University of science and Technology **1999**.
- Certificate of thanks and appreciation issued by dean of **engineering college, Hadhramout University 1998**.

7. Reviewer of Research Papers

25th November 2016

- The International Journal of Applied Ceramic Technology (ACT).
- Sensors and Actuators **A**: Physics (Elsevier).
- Sensors and Actuators **B**: Chemical (Elsevier).
- Sensors and Actuators **B**: Chemical (Elsevier).
- Journal of Hazardous Materials (Elsevier).
- Journal of Hazardous Materials (Elsevier).
- Sensors and Actuators **A**: Physics (Elsevier).

8. Membership of International Bodies

- American Nano Society (ANS), USA

9. Publications– Books, Journals, Articles

Sr. No.	Year of Publication	Title	Author/Co-Author	Book/Journal/Article
1	2010	Nanosize SnO ₂ Based Tubular Resistive Gas Sensor for Hydrogen and Acetone Vapour	Salim F. Bamsaoud , S.B. Rane, R.N. Karekar, R.C. Aiyer	Trans. Ind. Ceram. Soc., 69 (3) (2010) 193-197.
2	2011	Nano particulate SnO ₂ based resistive films as a hydrogen and acetone vapour sensor	Salim F. Bamsaoud , S.B. Rane, R.N.Karekar, R.C. Aiyer	Sensors and Actuators B 153 (2011) 382–391. (Elsevier)
3	2011	Time of Firing" Effect on Spin Coated Nano-SnO ₂ sensor at high and low H ₂ concentrations	Salim F. Bamsaoud , S.B. Rane, R.N. Karekar, R.C. Aiyer	Lucknow Journal of Science 8 (2011) 265-269.
4	2012	SnO ₂ film with bimodal distribution of nano-particles for low concentration hydrogen sensor: effect of firing temperature on sensing properties	Salim F. Bamsaoud , S.B. Rane, R.N. Karekar, R.C. Aiyer	Materials Chemistry and Physics (Elsevier), 133 (2012) 681– 687
5	2015	<u>Fe₂O₃-PdO doped SnO₂ based room temperature operable LPG sensor</u>	<u>V. Dhongade, P. More, S. F. Bamsaoud,</u> R. C. Aiyer	Conference: IEEE Conference Publications, At Pune, India
6	2016	Highly sensitive Room Temperature Hydrogen Sensor based Tin Oxide	Salim F. Bamsaoud	<u>Communicated</u>

25th November 2016

7	2016	Non-enzymatic Detection Technique for Diabetes in Blood Samples Using Nano-structured Metal Oxide thin film	<u>Salim F. Bamsaoud</u>	<u>Communicated</u>
8	2016	Effect of Palladium Concentration on Tin Oxide Film Based Glucose sensor	<u>Salim F. Bamsaoud</u>	<u>Communicated</u>
9	2016	Effect of Biologically Synthesized Silver nanoparticles on germination and growth of seedlings plant zucchini	Mahroos M. Bamwarth, Salim F. Bamsaoud	<u>Communicated</u>

10. Publication– Conference Presentations

Sr. No.	Year of Publication	Title	Author/Co-Author	Book/Journal/Article
1	2008	H ₂ gas sensing properties of spin coated SnO ₂ thin films	Salim F. Bamsaoud , S.B. Rane, R.C. Aiyer	Presented in the 13 th National Seminar on Physics and Technology of Sensor held in Pune University during 3 rd – 5 th March 2008.
2	2008	Effect of firing time on electrical and gas sensing properties of SnO ₂ thick film	Manasi H. Belani, Salim F. Bamsaoud , R.C. Aiyer,	13 th National Seminar on Physics and Technology of Sensor held in Pune University during 3 rd – 5 th March 2008
3	2009	Effect of Technologies on Acetone Vapour Sensor Using Nano Particle of SnO ₂	Salim F. Bamsaoud , R. N. Karekar, R.C. Aiyer	Presented in the 14 th National Seminar on Physics and Technology of Sensor held in University Gwalair during 2 nd -5 th 2009
4	2009	Effect of firing temperature on H ₂ gas sensing properties of single step thermally decomposed spin coated ZnO films	Manasi H. Belani, Ravi Ingale, Salim F. Bamsaoud , R.C. Aiyer	Presented in the 14 th National Seminar on Physics and Technology of Sensor held in University Gwalair during 2 nd -5 th 2009
5	2009	Nano-SnO ₂ based ppb Level Hydrogen and Acetone Vapour resistive Sensor	Salim F. Bamsaoud , R. N. Karekar, R.C. Aiyer	The International Conference for Nanotechnology Industries, held in King Saud University, Riyadh , Kingdom of Saudi Arabian , during 5 th -7 th April 2009.
6	2010	Nano-SnO ₂ as Hydrogen and Acetone Resistive Sensor	Salim F. Bamsaoud , S.B. Rane, R. N. Karekar, R.C. Aiyer	10 th Raman Memorial Conference held at Department of physics , university of Pune during Feb 21- 22,2010

25th November 2016

7	2010	UV-VIS peak variation with firing temperature of nanoSnO ₂ spin coated film and its resistance stability with temperature and RH	Salim F. Bamsaoud , S.B. Rane, R. N. Karekar, R.C. Aiyer	International Interdisciplinary Science Conference (I-ISC, 2011) On Bioinformatics: An interface between Computer Science and Biology, held in Jamia Millia Islamia, New Delhi during 15 th -17 th November 2010.
8	2012	Preliminary study of (FeCl ₃) doped (SnO ₂) thin films as room temperature LPG sensors selective against CO	<i>Abhishek Anand</i> , Salim F. Bamsaoud , R. N. Karekar	1 st International Symposium on Physics and Technology of Sensor, Pune, India, 8-10 March 2012
9	2012	Nano-particle SnO ₂ based resistive films as a hydrogen sensor: Effect of firing time on sensing properties	Salim F. Bamsaoud , S.B. Rane, R. N. Karekar, R.C. Aiyer	Nano Korea 2012 , 16-18 August, COEX, Seoul, Korea.

11. Workshops/Conferences /Attended

Sr. No.	Title of Workshop	From To	Organised Place
1	Design of Electronic Equipment	1 st and 2 nd March 2008	Department of Electronics, University of Pune, India.
2	Two Days Workshop for Ph. D. Research Students	16-17 May 2008	Allana Institute of Management Science, Pune, India
3	Nanotechnology and Advanced Functional Materials	9 th to 11 th July 2009	National Chemical Laboratory (NCL), Pune, India.
4	Half Day Workshop in Calibration	17 th December 2011	Centre for Sensor Studies, Department of Electronics, University of Pune, India.
5	Application of Nanotechnology in Industry: Opportunity of Integration Among Islamic Development Bank Member States	29 th to 31 th January 2012	National Research Centre (NRC), Cairo ,Egypt.
6	2 nd International Workshop on Clean Room Training For Critical and Sustainable Technologies – Lab on a Chip	25 June—8 July 2012	National Nanotechnology Research centre (UNAM), Institute of Materials Science and Technology, Belkint University , Ankara, Turkey
7	2 nd Weak of Quality Assurance in High Education.	15 th -19 th March 2014	Council for Accreditation and Quality Assurance -Yemen/ Academic Development Center, Hadhramout University, Mukalla, Yemen

25th November 2016

8	The 3 rd Scientific of Hadhramout University	6 th -8 th April 2014	Hdhramout University , Mukalla, Hadhramout , Yemen.
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12. Invited Talk

S.No	Topic	Date	Name of Institute
1	Nanoparticulate Tin Oxide Thin Films Prepared by Single Step Thermal Decomposition and their application in gas sensing	29/1/2012	National Research Centre (NCR), Cairo, Egypt.
2	Hydrogen Energy for Better Future	1/12/2015	Mukalla Model Secondary School, Hadhramout, Yemen.