



NATIONAL INSTITUTE FOR LASER ENHANCED SCIENCE

N.I.L.E.S

CAIRO
UNIVERSITY

CURRICULUM VITAE

Associate Professor

Ahmed Asaad Ibrahim Khalil

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Updated Sunday, May 23, 2010

Personal Data

Family Name : KHALIL

Given Names : Ahmed Asaad Ibrahim

Date of Birth : 16 November 1968 [Cairo, Egypt]

Nationality : Egyptian

Marital Status : Married (two children)

Languages : Arabic, English, German and little French

Postal Address : National Institute for Laser Enhanced
Sciences, Cairo University
Giza, Egypt.

AREAS OF EXPERTISE AND INTERESTS:

Teaching:

- Laser Physics
- Laser Engineering
- Laser Material Processing
- Industrial Applications of Laser
- General Physics
- Optical Instruments and Measurements
- Laser Applications in Material Processing
- Waves and Vibrations
- Optics Instrument I
- Light and Quantum Optics
- Atomic and Molecular Spectroscopy
- Modern Physics
- **Introduction of atomic and molecular physics for Ph.D students**
- General Supervisor of the Main Projects (In Atmospheric Attenuation of Laser Power, Study of Laser Ablation in Different Materials, Design of Electronic Circuit for Laser Safety, A study of Corrosion on Metals using Laser Technique, Laser Communications in Free Space, Laser Mapping of the Sea Floor, Line Broadening Spectroscopy, Laser Cutting in Solids, 3D-Scanning Machine, Laser Control Project).

Research:

Mainly experimental work in the following fields:

- Laser Sciences and Technology
- Laser Plasma Diagnostics
- Laser Matter Interactions
- Laser Spectroscopy and Material Processing
- Nano-science Technology
- Laser driving Ion Sources
- Laser Coating and Technology (PLD)
- X-ray Production by Femtosecond Lasers
- Laser Photo-acoustic Spectroscopy
- Laser Induced Fluorescence

Published 40 papers in international journals and conferences as listed below

Consultations:

- Laser induced breakdown spectroscopy in metals and liquids
- Laser matter interactions
- ICCD Camera

- Spectrometers
- Double pulse set up
- Design of Nd:YAG laser
- Maintenance of Nd:YAG laser
- Maintenance of Nd:glass laser
- Laser techniques for spectroscopy measurements

EDUCATION

Ph. D. : Awarded [May 2002]
 Department of Engineering Application of Lasers,
 National Institute of Laser Enhanced Sciences, NILES,
 Cairo University, Giza, EGYPT, through channel system
 between Cairo University and German Government,
 DAAD (Deutsch Akademisches Austausch Dienst), Laser
 Experimental Physics V Institute,
 Ruhr University Bochum, GERMANY

Title : Laser Produced Plasma and Laser Plasma
 Diagnostics.

Advisor : Prof. H. –J. Kunze, (Chairman of Laser
 Experimental Physics V Institute, Ruhr
 University Bochum - GERMANY)

M. Sc. : Awarded [September 1995]
 Faculty of Science, Physics Department, Cairo University.
 M.Sc. of Laser Applications in Industry.

Title : Effect of High Power Lasers on the Electrical
 and Optical Properties of Silicon.

Advisors : Prof. M. Mounir, (Chairman of Electron
 Microscope, Physics Department, Faculty of
 Science, Cairo University, Cairo, Egypt
 Prof. S.S.E.H. SAIF, Dean of NILES, Cairo
 University, Cairo, Egypt.

Pre-M. Sc. : Qualifying Pre-M.Sc. Courses,
 Graduated [September 1992], Physics Department,
 Faculty of Science, Cairo University, Cairo, Egypt

B.Sc. : Graduated [May 1990], Physics Department,
 Faculty of Science, Cairo University, Cairo, Egypt

Attendance 09/1986 to 05/1990, Rank: 5th over 50 students.

Degree in B.Sc. : Very Good

Graduation Project : Laser Induced Range Finder in Military

Secondary Education: El-Khedawia Military Secondary School, Helmia El Gedida, Cairo, Egypt. High School Certificate 06/86.

Teaching Experience:

- Gave laboratory sessions for graduate students, both diploma and master students.
- Gave laboratory sessions for undergraduate students in summer training courses.
- Gave Lectures and Courses with Title Laser Material Processing, Laser Physics Science, Laser Engineering and Laser Interaction with matter for graduate students, both diploma and master students.

Studies:

- Study the Ultrafast Phenomena of Laser Beam
- Study the Industrial Laser Welding, Cutting and Cleaving in the Solid State Materials and Laser Range Finder.
- Laser Plasma Interactions.

POSITIONS HELD

Associate Professor [November 2007 till now]
Physics Department, Faculty of Science for Girls,
King Faisal University, Dammam, Postal Code.
31113, Box. 838, **SAUDI ARABIA**

Associate Professor [November 2007]
Department of Laser Sciences and Interactions,
National Institute for Laser Enhanced Sciences,
NILES – Cairo University, Cairo, **EGYPT**

Previous Positions:

Lecturer [May 2002 –November 2007]
National Institute for Laser Enhanced Sciences,
NILES – Cairo University, Cairo, **EGYPT**

Post-Doctoral (Visiting scientist) [July 2004 - November 2004]
Research by DAAD in Rheinisch Westfaelische

	Technische Hochschule Aachen, Lehrstuhl fuer Lasertechnik, LLTRWTH, Aachen, GERMANY
Post-Doctoral (Visiting Scientist)	[February 2005 - October 2005] Research Scientist at School of Optics, CREOL & FPCE P.O. Box 162700, 4000 Central Florida Blvd, Orlando, Florida, 32816-2700, USA
Lecturer Assistant	[October 1996 - May 2002] Department of Engineering Application of Lasers, National Institute for Laser Enhanced Sciences (NILES), Cairo University, Cairo, Egypt.
Tutor/Demonstrator	[May 1995 – October 1996] Department of Engineering Application of Lasers, National Institute for Laser Enhanced Sciences (NILES), Cairo University, Cairo, Egypt.
Researcher	[May 1992 – May 1995] National Institute for Laser Enhanced Sciences (NILES), Cairo University, Cairo, Egypt.
Researcher	[May 1990 – May 1992] Blood Bank Laboratory in "As-Salam International Hospital" Big Hospital in Cairo and on the Middle East, Cairo, Egypt.

AWARDS & GRANTS

- Awarded a fellowship for Master degree by the Faculty of Science, Cairo University, **EGYPT**, 1992.
- Honors Award for the superior performance during the four years of undergraduate studies, Cairo University, **EGYPT**, 1990
- Ranked fifth over the Physics Department for the accumulative average score (50 students), Cairo University, **EGYPT**.
- DAAD fellowship for Ph.D degree by the German Government in the Ruhr University Bochum, **GERMANY**, 1997 to 2000.
- Honors Certificate and Gold Medal Award for the Excellent Ph.D degree and for the new position (Lecturer & Staff Member) at Cairo University, from the Professors Staff Members Club at Cairo University, **EGYPT**, 2002.
- DAAD Scholarship for Post-Doctoral Research by the German Government in Rheinisch Westfaelische Technische Hochschule Aachen, Lehrstuhl fuer Lasertechnik, LLTRWTH,

Aachen, **GERMANY**, 2004.

- ID-BANK, Merit Scholarship Programmer for Post-Doctoral Research in the field of Laser Applications and the place of study is in the **USA**, November 2005.
- Excellent Research Scientist at School of Optics, CREOL & FPCE P.O. Box 162700, 4000 Central Florida Blvd, Orlando, Florida, 32816-2700, **USA**.

CAD Tools: Good knowledge of:

- WINWORD
- MATLAB
- COREL DRAW
- EXCEL
- ORIGIN
- INTER NET
- LATEX
- POWER POINT

English Proficiency **TOEFL:** Date: 4/2000

MEMBERSHIP

- Member in European Society of Photobiology and Photophysics, ESP, Trieste, ITALY.
- Member in Special Society of Laser Sciences, - Number 897, Cairo University – Giza, EGYPT.
- Member and Organizer in ESLIA, Egyptian Society for Laser Industrial Applications, Scientific Research Academy, Cairo – EGYPT.
- Member in DAAD (Deutscher Akademischer Austauschdienst), Kennedyallee 50 – D-53175 Bonn, GERMANY.
- Member in DPG (Deutscher Physikalischer Gessellschaft), GERMANY.
- Member in Bonding at the Ruhr University Bochum, Bochum, GERMANY.
- Member in ID-BANK, SAUDI ARABIA, Merit Scholarship Programmer for Post-Doctoral Research
- Member in Laser Plasma Laboratory, CREOL, University of Central Florida, USA.
- Member in PMI-Arabian Gulf Chapter, ID number 1208680, Project Management Institute, Saudi Arabia.

EDITOR/REVIEWER

- Referee: in International Journal “Spectrochemica Acta A”, (2007)

- Referee: in International Journal “Journal of Physics D: Applied Physics”, (2008)
- Referee: in International Journal “Journal of Optics A: Pure and Applied Optics”, (2008)
- Referee: in International Journal “Journal of Physics B: Atomic, Molecular & Optical Physics”, (2009)
- Referee: in International Journal of Physical Sciences (IJPS) India (2009).
- Referee: in International Journal of Material Sciences (JMS) Springer (2010).

Symposium & Training Courses

- Qualifying Computer Course (Fortran) in 1990 from the Department of Mathematics, Faculty of Science, Cairo University, **EGYPT**.
- Qualifying and Training Courses in Electron Microscopy (Techniques & interpretations) in the Physics Department, Cairo University, 1994 and 2000, **EGYPT**.
- Qualifying Courses in Symmetry and Optical Properties of Solid State Symposium in American University in Cairo in 1995, **EGYPT**.
- Training Course in German Language with Distinction degree, Faculty of Art, Cairo University, 1996, **EGYPT**.
- Training Course in, How to Learn the students in the Universities, Institute of Educational Research, Cairo University, from 30 November - 12 December, 1996, **EGYPT**.
- Three Months Qualifying Course in German language and German History in 1997, Serss El Lian (Office of Educational Minister) in Monofia City, **EGYPT**.
- Successfully Completed Training Course on ‘Operation and Maintenance of High Power Pulsed Pico Second Nd-Glass Laser System, from 28th July to 6th August, 1995, **USA**.
- Successfully Completed Training Course on ‘Operation and Maintenance of High Power Nd-YAG Laser System, from 10th September to 21th September, 1996, **USA**.
- GOETHE INSTITUE CERTIFICAT, Teilnahme-Bestätigung, 25/09/1997, Iserlohn, **GERMANY**
- GOETHE INSTITUE CERTIFICAT, Teilnahme-Bestätigung, 31/07/1997, Iserlohn, **GERMANY**
- Actively Participated in Seminar (Actual Problems in Plasma Physics) and present a Seminar talk on the topic, 1999, **Laser Thomson Scattering, Ruhr – University Bochum, GERMANY**.
- Participate in the Build Leader Persons Institute in Helwan city, High Educational Minister, from 10th November to 15th November, 2000, **EGYPT**.

- Actively Participated in Training Computer Science Course in Educational Science and Computer Nets Center, Cairo University, March, 2000, **EGYPT**.
- Successfully Completed Training Course on ‘Laser Industrial Applications, 27 May - 8 June, 2000, at NILES, **ICS (UNIDO), Trieste, ITALY**.
- Successfully Completed Training Course on ‘Laser Diagnostics of Combustion Processes, with Experimental Labs, 18 – 22 November, 2000, at NILES, **ICS (UNIDO), Trieste, ITALY**.
- Successfully Completed Training Course on ‘Laser Diagnostics of Combustion Processes, with Experimental Labs, 22 – 26 June, 2002, at NILES, **ICS (UNIDO), Trieste, ITALY**.
- Participation in National Workshope on ‘How to Write a Scientific Research Project, 1 – 3 Juli, 2002, at Nursing Research & Development Center, Kasr El Aini Hospital, Cairo University, **Giza, EGYPT**.
- Successfully Completed Training Course on ‘Advance in Operating and Maintenance of Spectroscopic analysis, electrical conductivity and PH Instruments’, Nov. 30 – Dec. 29, 2003, at Scientific Instrument Center, National Research Center, **Cairo, EGYPT**.
- Successfully Completed Training Course on ‘Advance of Computer Maintenance’, 1 – 5 March, 2003, at Scientific Instrument Center, National Research Center, **Cairo, EGYPT**.
- Successfully Completed Training Course on ‘Basic of measurements techniques, signal analysis and experimental methods using labVIEW program, 25 October, 2004, at National Instruments Center, Muenchen, **GERMANY**.
- 2005 Pittsburgh Conference & Exposition on Analytical Chemistry and Applied Spectroscopy workshop, Electrons Make the World Go Round, 02/26/2005 to 03/04/2005, Orlando, Florida, **USA**
- 2005 Pittsburgh Conference & Exposition on Analytical Chemistry and Applied Spectroscopy workshop, Electricity and Magnetism, 02/26/2005 to 03/04/2005. Orlando, Florida, **USA**.
- Metrology Seminars and Workshop; New advances in atomic Force Microscopy and Optical MEMS Measurement, VEECO, March 9, 2005 at the University of Central Florida, Orlando, Florida, **USA**.
- Introduction to CODE V Training Course given by Optical Research Associates, July 19-21, 2005, at the University of Central Florida, Orlando, Florida, **USA**.
- Attending many lectures, seminars and international talks from different Optical Companies, like VEECO, NEW PORT, COHERENT, PRINCETON,..etc, Orlando, Florida, **USA**..
- Wave packet dynamics simulation workshop during the chem.04 Conference, March 6, 2006, Cairo, **EGYPT**.
- The Third e-Services Symposium in the Eastern Province, Dammam, **Kingdom of Saudi Arabia** February 26 – 27, 2008.

- Organizer and Participant for workshop on “Glasses,” “Laser Glass Interactions and its Applications” Department of physics, faculty of science for girls at Dammam- **Kingdom of Saudi Arabia**, January 20, 2008.
- Organizer and Participant for workshop on,” “Laser Matter Interactions” Department of physics, faculty of science for girls at Dammam- **Kingdom of Saudi Arabia**, January 28-31, 2009.
- Participant for workshop on,” “Advances in Solar Energy Research & Technology” which was held in King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 9th November 2008.
- Participant for workshop on,” “Applications of X-ray Fluorescence in Industry and Research” which was held in King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 16-17 November 2008.
- “Laser Matter Interactions” Department of physics, faculty of science for girls at Dammam- **Kingdom of Saudi Arabia**, January 28-31, 2009.

CONFERENCES ATTENDANCE AND PARTICIPANT

- First National Conference in ‘Research Projects’ Sheraton Hotel, Cairo, **Egypt**, 5 – 11 April in 1992.
- International Conference in ‘Solar Energy storage and applied photochemistry’ Ain Shams University, Cairo, **Egypt**, 6 – 11 January in 1993.
- International Conference in ‘4th National Conference on Optical Spectroscopy, Laser & Their Applications in National Research Center, Cairo, **Egypt**, 27 – 29 September in 1994.
- International Conference in ‘Solar Energy storage and applied photochemistry’ Ain Shams University, Cairo, **Egypt**, 8 – 14 January in 1995.
- Second National Conference in ‘Research Projects’ Cairo University, Giza, **Egypt**, 17 April in 1995.
- Cairo University Conference in Educational Development, Cairo University, Giza, **Egypt**, 22 - 24 April in 1996.
- DPG National Conference on Laser Plasma Physics Researches in Bayreuth, Byrne, **GERMANY**, 1998.
- Cairo University Conference in Educational Development, Cairo University, Giza, **Egypt**, 27 - 28 March in 2000.
- The New Millennium Project of Egypt, Millennium Symposium, Future Research and Study Center, Cairo University, Giza, **Egypt**, 15 - 18 Jan in 2000.

- Cairo University Conference in Educational Development, Cairo University, Giza, **Egypt**, 20 - 23 May in 2001. Participant in this conference with Project to learn and exercise the undergraduate student school with Laser System Project.
- First Cairo International Conference on Plasma Physics & Applications, Tibarose Hotel, Cairo, **Egypt**, 11 - 15 October 2003.
- Organizer for the workshop titled (Laser in Science and Technology) in the period from 1 - 3 April 2003. Under the cooperation between NILES, Cairo University, Atomic energy authority and National Research center, Cairo, **Egypt**. Invited Lecture about Laser Industrial Applications in the future given by Dr. Ahmed Asaad I. Khalil.
- Workshop on Materials Science and Radiation Physics, Physics Department, Faculty of Science, Assiut University, Assiut, **Egypt**, 20 - 22 December 2003.
- First International Conference in ‘Modern trends in physics research (MTPR-04)’, Physics Dept., Faculty of Science, Cairo University, Cairo, **Egypt**, 04 – 09 April in 2004.
- The Third Symposium on Scientific Research and Technological Development Outlook in The Arab World, SRO III, Riyadh – Kingdom of Saudi Arabia, 11 – 14 April in 2004.
- International PITTCON meeting in Orlando, Florida, **USA** in March 2005.
- EMSLIBS meeting in Aachen, **Germany** in September 2005.
- PACIFICHEM meeting in Hawaii, **USA** in December 2005.
- LACSEA meeting in Nevada, **USA** in February 2006.
- First International Conference in ‘Modern trends in physics research (MTPR-06)’, Physics Dept., Faculty of Science, Cairo University, Cairo, **Egypt**, 04 – 09 April in 2006.
- Workshop in Atomic and Molecular Data for Fusion Energy Research, International Atomic Energy Agency, The Abdusalam International Center For Theoretical Physics (ICTP) 28 August – 8 September (2006), **ITALY**.
- Organizer of the 6TH International Conference On Laser Applications ICLA 6 Cairo, Egypt, Jan. 15-18, 2007, in NILES, Cairo University, Cairo - **Egypt**.
- First international conference in Laser Science & Engineering and Its Applications in the period from Jan. 22-26, 2007, in Khartoum, **Sudan**.
- “KACST 3rd International Symposium on Quantum Optics and Informatics” in the period from 14-16 March 2009, in the National Center for Mathematics and Physics at King Abdel Aziz City for Science and Technology, Riyadh, **Saudi Arabia**.
- Workshop in Atomic and Molecular Data for Fusion Energy Research, International Atomic Energy Agency, The Abdusalam International Center For Theoretical Physics (ICTP) 20 April – 1 May (2009), **ITALY**.

- First Workshop on Carbon Nano Tubes; Characterizations and Applications, 26 – 27 May (2009), King Fahd University, **Saudi Arabia**.
- 19th Annual Saudi – Japan Symposium, Catalysts in Petroleum Refining & Petrochemicals, King Fahd University for Petroleum and Minerals (KFUPM), research institute, 8 – 9 November (2009), **Saudi Arabia**.
- "Laser Based Sensor for Determination of Outages Causes of Electrical Cables," **M. H. Shwehdi, M. A. Gondal and A. A. I. Khalil** accepted for presentation at 2009-CEIDP Conference, 18-21, October, 2009, Virginia Beach, USA
- Third Workshop on Clean Water and Clean Energy; Center for clean water and clean energy at MIT and King Fahd University for Petroleum and Minerals (KFUPM), 12 – 13 January (2010), **Saudi Arabia**.
- Series of Lectures on Novel Corrosion test methods and sol-gel coatings, center of research excellence in Corrosion, King Fahd University for Petroleum and Minerals (KFUPM), 31 Jan – 01 Feb. (2010), **Saudi Arabia**.

Invitations

- To Attendance and Participate in the French-Lebanese Symposium on the Metrology of Materials and Physio-Chemical Analysis. From 30th October to 1st November, 1998, Presidence Du Conseil Des Ministres, Beirut – **LEBANON**.
- Universität ULM, Abteilung Chemische Physik, D-89069, under Supervision From Prof. Dr. W. Hüttner, in the field of Doppler resonance and Multiphoton methods using Laser techniques, **GERMANY**.
- Universität ULM/FRG, Abteilung Festkörperphysik, Solid State Physics Department, , D-89069, under Supervision From Head of this Department, Prof. Dr. Paul Ziemann, under Program funded by the German Science Foundation (SFB569) in the field of Laser Ablation techniques in a specific multilayers using a pulsed ArF Excimer Laser, **GERMANY**.
- Universität Heidelberg, Abteilung Physik, under Supervision From Prof. Dr. Peter Hess, in the field of Laser induced Thin Film techniques, **GERMANY**.
- To Attendance the International Summer College on optics & Photonics, (ISCOP 2001) and Present a lecture their in the period from 12 to 24 August, 2001, Tabriz University & International Scientific Office, (ISMO), Tehran, **IRAN**.
- To Attendance and Participate by two papers in the International Center For Dense Magnetized Plasma (ICDMP) Conference, and in the International School of High Current Plasma Experiments and Diagnostics, on 24 – 28 September 2001, in WARSAW, **POLAND**.
- To Attendance and Participate by one paper in the Fourth International Workshop and School “Towards Fusion Energy – Plasma Physics, Diagnostics, Applications”, on 7 – 13 June 2004, in Kudowa Zdroj, **POLAND**.
- To Attendance and Participate by one Poster “Effect of Laser Irradiation on the Properties of Semiconductor Material” in the NATO-ASI 32nd Course of the International School of Solid State Physics entitled, Organized by Los Alamos National Laboratory, 2004 in, **ITALY**.

Recommendation letters and References

- Prof. Dr. Hans Joachim KUNZE, Professor of Physics, Head of Institute für Experimentalphysik V, Fakultät für Physik und Astronomie, Ruhr University Bochum, **GERMANY**.
Tel. (0234) 32-25785, (0234) 32-26218. Fax. (0234) 32-14175.
- e-mail. Hans-Joachim.Kunze@ep5.ruhr-uni-bochum.de, HJ_R.Kunze@t-online.de

- Prof. Dr. Martin C. RICHARDSON, Professor of X-ray Photonics, Optics, Physics and ECE in laser Plasma laboratory Department, School of Optics, CREOL & FPCE P.O. Box 162700, 4000 Central Florida Blvd, Orlando, Florida, 32816-2700, **USA**.
Tel. 407 823 6819. Fax. 407 823 3570.
e-mail. mcr@creol.ucf.edu

- Prof. Dr. Ayahiko ICHIMIYA, Professor in Department of Quantum Engineering, Nagoya University, Nagoya, **JAPAN**. (Referee my MSc thesis 1996)
Tel. ++ 81-52-789.4459 (Direct). Fax. ++81-52-789-3703.
e-mail. a40278a@nucc.cc.nagoya-u.ac.jp

- Dr. Siegfried MAURMANN, Doctor of Physics, Institute für Experimentalphysik V, Fakultät für Physik und Astronomie, Ruhr University Bochum, **GERMANY**.
Fax. (0234) 32-14175.

- Prof. Dr. Alexandr Emmanuilovich YUNOVICH, Professor of Physics and Mathematics, Soros Professor of International Science Foundation, Lomonosov Moscow State University, Department of Physics, 119899, Moscow, **RUSSIA**.
Tel. (095) 133 – 8078 (Priv.), (095) 939-2994 (Labor). Fax. (095) 939-3731.

- Prof. Mohammed Ashraf Gondal, Ph.D. Coordinator Laser Research Group, Member Editorial Boards, AJSE, Int J. Spectroscopy and Pak. J. Anal. Chem. & Environ.
Physics Department, King Fahd University of Petroleum & Minerals, Box 372, Dhahran 31261, **SAUDI ARABIA**.
Tel. +9663-8602351 Mobile +966556211252 Fax: +9663-8604281
E-mail: magondal@kfupm.edu.sa lrg@kfupm.edu.sa
personal webpage: <http://faculty.kfupm.edu.sa/PHYS/magondal>

- Prof. Dr. Gotoshia SERGO, Professor of Physics, Head of the Laser Laboratory Department Institute of Inorganic Chemistry and Electrochemistry, Laser Laboratory Department, **GEORGIA**.

- Prof. Dr. Mounir YOUSIF, Professor of Physics, Head of Physics Department, Faculty of Science, Cairo University, Giza, **EGYPT**.

- Prof. Dr. DSc. Tharwat M. EL SHERBINI, Professor of Physics, Faculty of Science, Cairo University, Giza, **EGYPT**.

- Prof. Dr. Sayed S. E. H. SAIF, Dean of National Institute of Laser Enhanced Science, NILES, Cairo University, Giza, **EGYPT**.
Tel. (0202) 5729499. Fax. (0202) 5729499.
- Prof. Dr. Karl GATTERER, Institute of Physical and Theoretical Chemistry, Graz University of Technology, Rechbauerstr. 12 A-8010 Graz, **AUSTRIA**.
Telephone: +43 316 873 8239 Telefax: +43 316 873 8225 E-mail: gatterer@ptc.tu-graz.ac.at
- Prof. Dr. Allen M. HERMANN, Physics Department, University of Colorado at Boulder, Duane Physics F-619, Campus Box 390, Boulder, Colorado 80309-0390, **CANADA**.
Tel. (0303) 492-2661 or (0303) 278-3901 (Home).
Fax. (0303) 492-2998 or (0303) 278-8664 (Home).
- Prof. Dr. A. B. El BEALY, Head of the Physics Department, University College for Girles, Ein Shams University, Cairo, **EGYPT**.
- Prof. Dr. Rafie ABU-EITTAH, Head of the Chemistry Department, Faculty of Science, Cairo University, Giza, **EGYPT**.
- Prof. Dr. Mohamed Mounir Saad El DIN, Professor of Physics, Head of Electron Microscopy Part, Physics Department, Faculty of Science, Cairo University, Giza, **EGYPT**.
Tel. 00202-5676748. Tel. 00202-3300063 Home.
- e-mail. msaadeldin@hotmail.com
- Prof. Dr. Ahmed M. YOUSSEF Professor of physics, Physics Department - Faculty of Science, Damietta, Mansoura University, **EGYPT**.
- Prof. Dr. A. M. El Nadi, Chairman of the Laser Applications in Industry, Communications and Fiber Optics Department - NILES, Cairo University, Giza, **EGYPT**.

PUBLICATIONS

Papers in Refereed Journals / Conferences

No. of Co-authors: 40

No. of single papers: 5

List of Publications

- 1- **Ahmed A. I. Khalil** and M. Mounir, Effect of Laser on Optical Propertie of Silicon, International Conference, NILES, (1996), Cairo, **EGYPT**. (Participate with Lecture from Ahmed A. I. Khalil).
- 2- **Ahmed A. I. Khalil** and M. Mounir, Magnetic Field Induced Structrual Changes in Silicon, International Conference, NILES, (1996), Cairo, **EGYPT**.(Participate with Lecture from Ahmed A. I. Khalil).

- 3- **Ahmed A. I. Khalil** and M. Mounir, Effect of High-Power CO₂ Laser Pulses and Thermal Annealing on the Electrical Properties of n-Si, International Conference of Material Research Society (MRS), Pittsburgh, PA, Boston, Vol. 30, B12.32, 521, (1995), USA.
- 4- **Ahmed A. I. Khalil**, Laser Applications in Industry, PhyMa 1, First National Conference on Physics & Mathematics Science and Applications, 27 – 30 November, (1995), Cairo, EGYPT. (Participate with Lecture from Ahmed A. I. Khalil).
- 5- **Ahmed A. I. Khalil** and M. Mounir, Interaction of High Power Laser with Silicon, 4th workshop on Plasma and Laser Physics, 26 – 29 February, (1996), Cairo, EGYPT. (Participate with Lecture from Ahmed A. I. Khalil).
- 6- **Ahmed A. I. Khalil** and M. Mounir, First Conference on Electron Microscopy held in El-Ismailia on September 13 – 15, (1995), Cairo, EGYPT. (Participate with Lecture from Ahmed A. I. Khalil)
- 7- **Ahmed A. I. Khalil** and M. Mounir, Laser Induced Sc. Thin Film Technology, First International Symposium on Thin Film Technology and Applications, 5 – 8 November, Ain Shams University, Cairo, (1995), EGYPT.
(Participate with Lecture from Ahmed A. I. Khalil)
- 8- **Ahmed A. I. Khalil** and M. Mounir, Laser Induced Si processing, Egyptian Syndicate of Scientific Professions, First National Conference on Physical Science & Mathematics and their Applications, October 15 – 21, (1995), Cairo, EGYPT. (Participate with Lecture from Ahmed A. I. Khalil).
- 9- S. S. E. H. Saif, M. Mounir, **Ahmed A. I. Khalil**, Effect of Laser and Thermal Annealing on the Electrical Properties of n-Si, Journal of the Faculty of Education, Ain Shams University, 391 - 418, (1995), Heliopolis, Roxy, Cairo, EGYPT.
- 10- **Ahmed A. I. Khalil** and M. Mounir, Laser Induced Damage in Semiconductor, 4th International Euro-Mediterranean Conference on Laser, Photobiology Applications in Medicine, Environment and Biotechnology, November 13 – 16, (2001), Hosted by NILES, ESP, IUPB, Cairo, EGYPT (Participate with Lecture from Ahmed A. I. Khalil).
- 11- **Ahmed A. I. Khalil**, M. Atta and A. M. El Nadi, Electric Field Induced Laser Produced Plasma, 4th International Conference on Laser & Applications in Science, Medicine and Technology, 31 March – 5 April, (2001), NILES, Cairo University, Cairo, EGYPT.
- 12- **Ahmed A. I. Khalil** and M. Mounir, Effect of High Power CO₂ laser on The Electrical Properties of Silicon, National Conference on Physical Science & Technology, Deutsche Physikalische Gesellschaft, DPG, March 15 – 21, P 34, (1999), Heidelberg, GERMANY.
- 13- **Ahmed A. I. Khalil** and M. Mounir, Investigations of the Electrical And Optical Properties of Silicon using Nd:YAG Laser, National Conference on Physical Science & Technology, Deutsche Physikalische Gesellschaft, DPG, March 15 – 21, P 35, (1999), Heidelberg, GERMANY.
- 14- I) Lotfia El Nadi, **Ahmed Asaad I. Khalil** and Gamal A. Fattah, Welding of Aluminium Foils by Focusing Nd:YAG IR Laser on the interface of two slabs, J. Laser Sci & Tech., 14 (2001) 37.
II) Lotfia El Nadi, **Ahmed Asaad I. Khalil** and Gamal A. Fattah , Pulsed Laser soldering of Al Sheets & associated effects, J. Laser Sci & Tech., 6 (1992) 1.
- 15- **Ahmed A. I. Khalil** and M. Mounir, Laser Induced Damage in Silicon, Premier Colloque Franco-Libanais sur Les Sciences Des Materiaux, Liste Des Conferences et Des Communications, 10 – 13 October (1996), Beirut – (CNRS) du LEBANON.

- 16- **Ahmed A. I. Khalil**, S. Maurmann and H. –J. Kunze, Design, Test and Applications of Laser Thomson Scattering in low Temperature Plasma in the Magnetic Multipole Source, International Conference on Plasma Physics, Plasma 2001, September 24 – 28 , P 38, (2001), Warsaw, Kudawa, **POLAND**.
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