

March 30, 2007

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Research

GRANTS:

Project Title: Novel Homogenous, Low-loss, and Tunable Magnetic Semiconductor-based Metamaterials
Sponsor: National Science Foundation
Amount: \$300,000
Duration: April 2007 – March 2010
PI: Alkim Akyurtlu

JOURNAL PUBLICATIONS:

D. K. Kalluri, A. F. Khalifeh, S. Eker
"Frequency and Polarization Transformer: Transverse Modes: I Zero Rise Time, *IEEE Transactions on Antennas and Propagation*, accepted and to be published in June 2007.

S. Mil'shtein "Infrared Scanning for Biomedical Applications," *Scanning* **28, 5**, 274-277 (2006)

J. Palma, C. Liessner, and S. Mil'shtein "Contactless Optical Scanning of Fingerprints with 180° View", *Scanning*, **28, 6**, 301-304 (2006)

C. Liessner, J. Barrett, J. Palma, D. Gleason, and S. Mil'shtein "Improving FET Switch Linearity" *IEEE Trans. Electr. Dev.*, **54, 3**, 391-397 (2007)

Joel Therrien, Amir Dindar, and David Smith, "AFM studies of nanoparticle deposition via electrospray ionization," Special Issue on Nanomanufacturing, *Microscopy Research and Technique*, accepted January, 2007.

CONFERENCE

PRESENTATIONS:

A. Cultura and Z. Salameh, "Design, installation and evaluation of 10.56KW Photovoltaic power system at UML," Power Gen. Renewable and Fuels conference, Las Vegas. NV, March 6-8, 2007.

S. Mil'shtein and P. Erslund, "Progress of Quantum Electronics and Future of Wireless Technologies", **review paper**, *accepted*, Intern. Conference on Low Dimensional Structures and Devices (LDSD-2007), Apr. 17, 2007

S. Mil'shtein, A. Churi and J. Palma, "Bipolar Transistor with Quantum Well Base", *accepted*, Intern. Conference on Low Dimensional Structures and Devices (LDSD-2007), Apr. 18, 2007

S. Mil'shtein, J. Palma, C. Liessner, and C. Gil, "Light Emission from Semiconductor Triode", *accepted*, Intern. Conference on Low Dimensional Structures and Devices (LDSD-2007), Apr. 19, 2007

PATENTS:

International Patent (class A61, B00, 600) 6,028,719/US was granted in March 2007 on "Infrared Scanner for Biological Applications" to S. Mil'shtein and N. Lue

Announcements from the Graduate Coordinator:

1. BS/MS Program
An application package has been sent to juniors and seniors who are eligible for the combined BS/MS program. If you have a cumulative GPA of 3.0 or better but do not receive the package, please contact the Department office at BL301. It is suggested that students see Professor Tran before submitting their applications to the Graduate Admissions Office.
2. Core Requirement
Because most core courses are offered only once a year, students should give top priorities to core courses in course selections when they are offered. There is no replacement and/or waiver of core requirement.
3. Spring 2006 Graduation
The deadline for filing the Graduate Degree Clearance Form for Spring 2007 graduation is April 19, 2007.
4. New graduate policy on Thesis/Dissertation
 - (a) Thesis/Dissertation Advisors are recorded in ISIS
 - (b) A graduate student who wants to change his/her Masters program of study from thesis option to non-thesis option must file an academic petition.
 - (c) To change thesis/dissertation advisors a student must submit an academic petition with all required signatures of the program coordinator and new thesis/dissertation advisor.

Calendar of Important Dates

April

2 Monday *Faculty Advising Period for Fall Semester (2007).

*First Day for Seniors Who Anticipate Completion of Degree Requirements by the End of December (2007) to Confer with Faculty Advisors and to File Programs of Baccalaureate Studies (DIG Forms)

10 Tuesday Last Day for Students to withdraw from courses with grade of "W".

13 Friday *Faculty Advising Period for Student Selection of Fall Semester (2007) Courses Ends

*Last Day for Seniors Who Anticipate Completion of Degree Requirements by the End of December (2007) to Confer with Faculty Advisors and to File Programs of Baccalaureate Studies

16 Monday Patriot's Day
(University Closed)

18 Wednesday *Monday Class Schedule

*Student Registration Begins for Fall 2007 Semester Courses via ISIS student self service based on enrollment appointments.

19 Thursday *Last Day for students to Complete Work for Incomplete Fall 2006 Semester Courses

27 Friday *University Day (No Classes)