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EMPLOYMENT

Assistant Professor University of West Georgia Carrollton, GA 30018	2010 - present
Lecturer Northern Kentucky University, Highland Height, KY 41009	2007 - 2010

EDUCATION

PhD Student, Experimental Condensed Matter Physics Department of Physics University of Cincinnati, Ohio USA Dissertation Topic: Organic Nanostructures and their Optoelectronic properties Research Adviser: Prof. Hans Peter Wagner	1999 - 2005
M.S., Theoretical Physics College of Art and Sciences, University of Cincinnati, Ohio USA	1999 - 2001
B.Sc. Special degree honors Major - Physics, Minor - Mathematics Faculty of Science, University of Ruhuna, Matara, Sri Lanka	1994 - 1996
B.Sc. General degree honors Physics, Mathematics, Chemistry Faculty of Science, University of Ruhuna, Matara, Sri Lanka	1991 - 1994

WORK EXPERIENCE

Lecturer Northern Kentucky University, Highland Height, KY	2007 - 2010
Research Associate Queens College, the City University of New York, Flushing, NY	2006 - 2007
Molecular Beam Deposition Lab Department of Physics, University of Cincinnati, USA	
Teaching Assistant Department of Physics, University of Cincinnati, USA	1999 - 2002
Research Assistant Institute of Fundamental Studies, Kandy, Sri Lanka	1988 - 1999
Assistant Lecturer Department of Physics, University of Ruhuna, Matara Sri Lanka	1996 - 1998

SCIENTIFIC TRAINING

E-Beam Lithography techniques (RAITH) Department of Electrical Engineering, University of Cincinnati.	2003
UHV techniques and organic thin film deposition Technical University of Chemnitz, Chemnitz Germany	2001

AWARDS AND HONORS

The Winner, Retreat Poster Presentation Department of Physics, University of Cincinnati	2004
Presidential Research Bonus award IFS, Kandy, Sri Lanka	1999
Mahapola Scholarship award University of Ruhuna, Matara Sri Lanka	1991-1996

LEADERSHIP SKILLS

Founding Treasurer, Sri Lankan Students Association University of Cincinnati.	2003-2001
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PROFESSIONAL AFFILIATIONS

American Physical Society (APS)	Present -2001
Life member Sri Lanka Association for the Advancement of Science (SLAAS)	Present -1997

REFEREED ARTICLES

PHYS REV B 70 (Y): XXX-XXX ZZZ 2004 in press
Exciton emission in PTCDA films and PTCDA/Alq₃ multilayers
H. P. Wagner, A. *DeSilva*, T. U. Kampen

PHYS STAT SOL (b) 241 (14): 3334-3338 NOV 2004
Effect of high pressure on the photoluminescence transitions of excitons in a-PTCDA crystals
R. E. Tallman, B. A. Weinstein, A. *DeSilva* and H. P. Wagner

J ELECTRON MATER 30 (8): 992-996 AUG 2001
Dye-sensitized solid-state photovoltaic cells: suppression of electron-hole recombination by deposition of the dye on a thin insulating film in contact with a semiconductor
K. Tennakone, V. P. S. Perera, I. R. M. Kottegoda and L. A. A. *De Silva*, G. R. R. A. Kumara and A. Konno

SEMICOND SCI TECH 16 (6): 433-439 JUN 2001
Junction effects of p-Cu₂O photocathode with layers of hole transfer sites (Au) and electron transfer site (NiO) at the electrolyte interface
C. A. N. Fernando, L. A. A. *De Silva*, R. M. Mehra and K. Takahashi

SEMICOND SCI TECH 14 (11): 975-978 NOV 1999
The possibility of ballistic electron transport in dye-sensitized semiconductor nanocrystalline particle aggregates
K. Tennakone, I. R. M. Kottegoda, L. A. A. *De Silva* and V. P. S. Perera

CHEM MATER 11 (9): 2474-2477 SEP 1999
Dye-Sensitized photoelectrochemical cells based on porous SnO₂/ZnO composite and TiO₂ films with a polymer electrolyte
K. Tennakone, G. K. R. Senadeera, V. P. S. Perera, I. R. M. Kottegoda and L. A. A. *De Silva*

CONFERENCE ABSTRACTS AND PROCEEDINGS

ICPS 27, Flagstaff Arizona 2004

Absorption and emission in thin PTCDA films and PTCDA/Alq₃ multilayers

H. P. Wagner, *A. DeSilva*, V. R. Gangileka and T. U. Kampen

11th Int. Conf. on High Pressure Physics, San Francisco, California 2004

Effect of high pressure on the photoluminescence transitions of excitons in a-PTCDA crystals

R. E. Tallman, B. A. Weinstein, *A. DeSilva* and H. P. Wagner.

Great lakes photonics symposium, SPIE Cleveland Ohio, June 2004

Exciton Emission in thin PTCDA Films and PTCDA/Alq₃ Multilayers,

H. P. Wagner and *A. DeSilva*

A P S March meeting, Montreal, Canada March 2004.

Photoluminescence from PTCDA films and PTCDA/Alq₃ multilayers,

A DeSilva, H. P. Wagner and T. U. Kampen

Hawaii International Conference , Honolulu Hawaii 2004

Exciton Emission in thin PTCDA Films and PTCDA/Alq₃ Multilayers,

H. P. Wagner, *A. DeSilva*, T. U. Kampen

OTHER ABSTRACT AND PROCEEDINGS

1. Investigation of enhanced photocurrent quantum efficiency in a photoelectrochemical system with Langmuir-Blodgett (LB) films of merocyanine-C18 deposited on p-Cu₂O prepared on Au+Cu alloy

C. A. N. Fernando, *L. A. A. De Silva* and R. M. Mehra

Proceedings of 5th workshop Electronic Materials, Solar Cells and Renewable Energy Sources, Colombo, Sri Lanka 22-23 Feb 2000, page 71

2. Characteristics of quasi solid photoelectrochemical cells with Sn₂/ZnO and TiO₂ films

K. Tennakone , G.K.R. Senadeera, V.P.S. Perera , I.R.M. Kottegoda, and *L. A. A. De Silva*

55th annual session of SLAAS, December, 1999

3. Dye sensitized polymeric photoelectrochemical cells with Sn₂/ZnO electrode

G.K.R. Senadeera, V.P.S. Perera, I.R.M. Kottegoda, and *L. A. A. De Silva*, K.Tennakone

Presented at the workshop on Low cost electronic materials and solar cells, Peradeniya, March 1999, 35

4. Sensitization of nonporous film consisting of oxides of tin and zinc and construction of a dye-sensitized photoelectrochemical cell. K. Tennakone, V. P. S. Perera, *L. A. A. De Silva*, and I.R. M. Kottegoda.

Presented at the workshop on Low cost electronic materials and solar cells, Peradeniya, March 1999, 63

5. Photovoltaic cell made from merocyanine-C18 Langmuir-Blodgett films on a plastic film.

C. A. N. Fernando, *L. A. A. De Silva*

Sri Lanka Association for the Advancement of Science (SLAAS), 54th Annual session, 1998 pro.

Part I abstract p-237

6. Enhanced photocurrent with p-Cu₂O photoelectrochemical cell.

C. A. N. Fernando, *L. A. A. De Silva*

Sri Lanka Association for the Advancement of Science (SLAAS), 53rd Annual session, 1997 pro.

Part I abstract p-291

7. p-Cu₂O photocathode with Langmuir Blodgett films of Merocyanine.

C. A. N. Fernando, *L. A. A. De Silva*

Sri Lanka Association for the Advancement of Science (SLAAS), 53rd Annual session, 1997 pro.

Part I abstract p-353

8. Properties of p-Cu₂O semiconductor thin film made between (Cu and Au) alloy and Indian Tin Oxide film in a photoelectrochemical cell.

C. A. N. Fernando, *L. A. A. De Silva*

Sri Lanka Association for the Advancement of Science (SLAAS), 53rd Annual session, 1997 pro.

Part I abstract p-238.

REFERENCES

Available upon request