

Curriculum Vitae

K. M. Nalin de Silva



OCCUPATION: Professor, Department of Chemistry, University of Colombo, Sri Lanka & **Science Team Leader**, Sri Lanka Institute of Nanotechnology (Pvt) Ltd, SLINTEC, Nanotechnology and Science park, Mahenwatta, Pitipana, Homagama, Sri Lanka.

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PROFESSIONAL COMPETENCE:

HIGHER EDUCATION:

- Ph.D. (Physical Chemistry). Department of Chemistry, University of Cambridge, UK (October 1994 – January 1998)(Supervisor: Dr. David Husain, PhD, ScD, DSc) (**Key Words - Ph.D. Thesis:** Laser Induced Fluorescence (LIF), Flash Photolysis, Chemical Kinetics, Atomic Spectroscopy and Atmospheric Chemistry)
- B.Sc. (Special Degree (Honours) in Chemistry, First Class) - 1992, University of Colombo, Sri Lanka.

POSTDOCTORAL EXPERIENCE:

- Research Scholar – **Prof. Evgueni Nesterov**, Department of Chemistry, Louisiana State University, Choppin Hall, Baton Rouge, LA 70802, USA. 1 March 2005 – 28 February 2006 (**Organic Materials for photovoltaic devices**)
- Research Scholar **Prof. Andrew Maverick**, Chair, Department of Chemistry, Louisiana State University, Choppin Hall, Baton Rouge, LA 70802, USA. 1 March 2006 – 27 Feb 2007 (**Metal Organic Frameworks, Rhodium Catalysts for selective hydrogenation**)

- Collaborative Research Project on Nanomaterials with **Dr. Rohini de Silva** and **Prof. Challa Kumar (Presently at Harvard University)** at the Centre for Advanced Microstructures and Devices (CAMD), Louisiana State University, Baton Rouge, USA, December 2006 – February 2007.
- Academic Visitor - **Dr. Nick Bampos** and **Dr. Jonathan Goodman**, Department of Chemistry, University of Cambridge and Unilever Centre for Molecular Informatics, University of Cambridge respectively, April 2003 – June 2003. (**Organic Materials and Computational Chemistry**)
- Academic Visitor - **Prof. Jeremy Sanders**, Head, Department of Chemistry, University of Cambridge January 1998 – October 1998. (**Organic Materials**)

INDUSTRY EXPOSURE (2012 – to date):

Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC)(www.slintec.lk) May 2012 – to date (On release from the University of Colombo) SLINTEC is a Public/Private Partnership (between the Government of Sri Lanka and MAS Holdings, Brandix, Loadstar, Hayleys, Dialog and Lankem providing nanotechnology based research solutions to private/state sector client companies. Duties include:

- Research management of client related projects in nanotechnology in the research areas: Textile and Apparel (antibacterial, self-cleaning, hydrophobic, moisture management and odor free textiles, etc.), Nanomaterials, water purification and bionanotechnology. Present clients are MAS Active, MAS R and I, Textured Jersey (Brandix), Dyna Wash, Hirdaramani, Orange Electrics, Hayleys Agro and Lankem.
- Business development and Client engagement
- IP management

CONSULTANCY ASSIGNMENTS:

1. **Science Team Leader**, Sri Lanka Institute of Nanotechnology (SLINTEC), Nanotechnology and Science Park, Mahenwatta, Pitipana, Homagama, Sri Lanka. (May 2012 – to date)
2. **Visiting Professor (Visiting Consultant)**, Sultan Qaboos University, Sultanate of Oman (September 2011 – January 2012).
3. **R & D Consultant** for Haycarb PLC., Sri Lanka (December 2009 – August 2010) (activated carbon based nanocomposites for water purification)
4. Appointed as an external expert reviewer for nano safety policy - World Health Organization (WHO) (Sep 2016 – to date)

RESEARCH INTERESTS:

- (1) Water purification using Capacitive Deionization Technology and other nanocomposites: Synthesis, characterization and applications of Magnesium oxide, iron oxide, silver, zinc oxide, titanium dioxide and zinc sulphide nanoparticles and their applications in activated carbon.
- (2) Applications of Nanotechnology in Smart Textiles (moisture management, self-cleaning, wicking management and yarn strength), Fertilizer, Cosmetics and Nutraceuticals.
- (3) Organic Photovoltaic Devices based on EDOT oligomers and polymers. (Supramolecular, Organic Materials, Macromolecular: self-Assembly and Synthesis), Fuel Cells, etc.
- (4) Use of nanotechnology for purification and extraction of Proteins and DNA: Nanobiotechnology
- (5) Natural Resources: Conversion of Ilmanite to titanium dioxide and iron oxide nano particles.
- (6) Non Linear Optical properties of modified EDOT oligomers. (Theoretical and Computational Chemistry; Molecular Mechanics, Semi-empirical, ab initio and Density Functional Theory Calculations) (Software: Gaussian (Windows and Linux), Gamess, Spartan Pro, MacroModel, Hyperchem Pro and Jaguar)
- (7) Non Linear Optical (NLO) properties of organic and organometallic molecular systems. (Theoretical and Computational Chemistry; Molecular Mechanics, Semi-empirical, ab initio and Density Functional Theory Calculations)

Research Group:

Present:

- 16 undergraduates and 5 Postgraduates (University of Colombo Team)
- 4 Senior Scientists, Two Postdocs and 6 Scientists (SLINTEC Team)

Past (1998 – 2015): Over 125 Undergraduates and 20 postgraduates

INTERNATIONAL PUBLICATIONS:

2017

- (1) Nano-MgO reinforced chitosan nanocomposites for high performance packaging applications with improved mechanical, thermal and barrier properties, R.T. De Silva a, M.M.M.G.P.G. Mantilaka , S.P. Ratnayake, G.A.J. Amaratunga , K.M. Nalin de Silva, *Carbohydrate Polymers*, 157 (2017), 739-747.

2016

- (2) Natural polysaccharides leading to super adsorbent hydroxyapatite nanoparticles for the removal of heavy metals and dyes from aqueous solutions, Danushika C. Manatunga, Rohini M. de Silva, **K.M. Nalin de Silva**, Rivi Ratnaweera, *RSC Advances*, 6 (2016) 105618 – 105630.
- (3) Nanosilver rainbow: a rapid and facile method to tune different colours of nanosilver through the controlled synthesis of stable spherical silver nanoparticles, Pramujitha Mendis, Rohini M. de Silva, **K. M. Nalin de Silva**, Lahiru A. Wijenayaka, Kalana Jayawardana and Mingdi Yan, *RSC Advances* 6 (2016), 48792-48799.
- (4) Ultrasound energy to accelerate dye uptake and dye–fiber interaction of reactive dye on knitted cotton fabric at low temperatures, Nadeeka D. Tissera, Ruchira N. Wijesena, **K.M. Nalin de Silva**, *Ultrasonics and Sonochemistry*, 29 (2016), 270-278.
- (5) Double layer approach to create durable superhydrophobicity on cotton fabric using nano silica and auxiliary non fluorinated materials, Danushika Manthunga, Rohini M. de Silva and **K.M. Nalin de Silva**, *Applied Surface Science*, 360, Part B, (2016), 777 – 788.
- (6) Colloidal Hydroxyapatite/Poly (Acrylic Acid) Hybrids Using Calcium Succinate and Ammoniumdihydrogen Orthophosphate, W.P.S.L. Wijesinghe, M.M.M.G.P.G. Mantilaka, A.M.C.P. Weerasinghe, **K.M. Nalin de Silva**, T.P. Gamagedara, R.M.G. Rajapakse, *Journal of Applied Solution Chemistry and Modeling*, 5 (2016) 21-29.
- (7) Synthesis, characterization and gas adsorption studies of nano magnesium oxide impregnated granular activated carbon, Induni W. Siriwardane, Ranodhi Udangawa, A.R. Kumarasinghe, Rohini M. de Silva, **K. M. Nalin de Silva**, Robert G Acres, Ananda Hettiarachchi, and G. A. J. Amarathunga, *Carbon*, 2016 (Submitted)
- (8) Nonlinear optical (NLO) properties of conjugated thiophene and ethylene dioxy thiophene (EDOT) oligomers: A Density Functional Theory (DFT) study, Neranga

Abeyasinghe, Rohini de Silva and **K.M. Nalin de Silva**, International Research Journal of Pure and Applied Chemistry, 13(2) 2016, 1-11.

- (9) Evaluation of PEI Functionalized Magnetic Iron Oxide Nanoparticles for Isolation of DNA from Biological Samples, Adheesha N. Danthararayana, Danushika C. Manatunga, Rohini M. de Silva, N. Vishvanath Chandrasekharan and **K.M. Nalin de Silva**, Journal of Biomaterials and Bionanotechnology, (Accepted), 2016.
- (10) *Ab initio* study of Co^{2+} binding at the N-terminal of Human Serum Albumin (HSA) Sinthaka N. Apitawalage, Rohini M. de Silva and **K.M. Nalin de Silva**, International Research Journal of Pure and Applied Chemistry, (Accepted), 2016.

2015

- (11) Biocompatible nano hydroxyapatite – curcumin bi-coated antibacterial activated carbon for water purification K. S. Malsha Udayakantha, Rohini M. de Silva, **K. M. Nalin de Silva**, Chamari Hettiarachchi, *RSC Advances*, 5 (2015), 64696-64703.
- (12) A curcumin activated carboxymethylcellulose-montmorillonite clay nanocomposite having enhanced curcumin release in aqueous media, Nadeesh Madusanka, **K.M. Nalin de Silva**, Gehan Amaratunga, *Carbohydrate Polymers*, 134 (2015), 695 - 699.
- (13) Coloration of cotton fibers using nano chitosan, Ruchira N. Wijesena, Nadeeka D. Tissera, **K.M. Nalin de Silva**, *Carbohydrate Polymers*, 134 (2015), 182-189.
- (14) Synthesis, characterization, and application of nano hydroxyapatite and nanocomposite of hydroxyapatite with granular activated carbon for the removal of Pb^{2+} from aqueous solutions, M. Shanika Fernando, Rohini M. de Silva and **K. M. Nalin de Silva**, *Applied Surface Science*, (2015), 351, 95-103
- (15) Hydrophobic cotton textile surfaces using an amphiphilic graphene oxide (GO) coating, Nadeeka D. Tissera, Ruchira N. Wijesena, J. Rangana Perera. Gehan A.J. Amaratunga and **K. M. Nalin de Silva**, *Applied Surface Science*, 324 (2015) 455–463.
- (16) A method for top down preparation of chitosan nanoparticles and nanofibers, Ruchira N. Wijesena, Nadeeka Tissera, Yasun Y. Kannangara, Yuan Lin, Gehan A. J. Amaratunga, **K.M. Nalin de Silva**, *Carbohydrate Polymers*, 117 (2015) 731–738.
- (17) Slightly carbomethylated cotton supported TiO_2 nanoparticles as self-cleaning fabrics, Ruchira N. Wijesena, Nadeeka Tissera, Rangana Perera, **K. M. Nalin**

de Silva and Gehan A. J. Amaratunga, *Journal of Molecular Catalysis A: Chemical*, 398 (2015) 107-114.

- (18) Theoretical study of catalytic decomposition of acetic acid on MgO nanosurface Duwage C. Perera, Jinasena W. Hewage, **Nalin de Silva**, *Computational and Theoretical Chemistry*, 1064 (2015) 1-6.
- (19) Molecular and scanning electron microscopic proof of phytoplasma associated with areca palm yellow leaf disease in Sri Lanka, Chamini Kanatiwala-de Silva, Malini Damayanthi, Roshan de Silva, Matt Dickson, **Nalin de Silva** and Preethi Udagama, *Plant Disease*, (2015), <http://dx.doi.org/10.1094/PDIS-01-15-0072-PDN>.

2014

- (20) Graphene-Based Membranes fabricated Using High Purity Natural Vein Graphite (NVG), A.R. Kumarasinghe, S. George, R.N. Wijesinghe, D. Jayasundara, **K.M. Nalin de Silva** and G.A.J. Amaratunga, *International Journal of Scientific Engineering and Technology* 11/2014; 33(11):1375-1379.
- (21) Modified Activated Carbon to be used in clinical applications, Shanika Fernando, Rohini M. de Silva and K.M. Nalin de Silva, *International Journal of Nanoscience*, 13(4), 2014, 144002.
- (22) Side selective surface modification of chitin nanofibers on anionically modified cotton fabrics, Ruchira Wijesena, Nadeeka Tissera, Rangana Perera, **K.M. Nalin de Silva**, *Carbohydrate Polymers*, 109 (2014) 56–63.

1997 - 2012

- (23) Long-Chain 3,4-Ethylenedioxythiophene/Thiophene Oligomers and Semi conducting Thin Films Prepared by Their Electropolymerization, **K. M. Nalin de Silva**, Euiyong Hwang, Wilson K. Serem, Frank R. Fronczek, Jayne C. Garno, and Evgueni E. Nesterov, *ACS Appl. Mater. Interfaces* 2012, 4, 5430–5441
- (24) Reaction Pathway Towards Formation of Cobalt Single Chain Magnets and Nanoparticles, G. Balaji, Rohini, De Silva, V. Palshin, **N. De Silva**, G. Palmer, and Challa S. S. R. Kumar, *Materials Science and Engineering: B*, 167(2), 107-113, 2010.
- (25) Self-Assembled Monolayer Initiated Electropolymerization: A Route to Thin-Film Materials with Enhanced Photovoltaic Performance Euiyong Hwang, **K. M. Nalin de Silva**, Chad A. Seevers, Jie-Ren Li, Jayne C. Garno, and Evgueni E. Nesterov, *Langmuir* 2008, 24(17); 9700-9706.

- (26) A new role for surfactants in the formation of cobalt nanoparticles. Rohini M. de Silva, Vadim Palshin, **K.M. Nalin de Silva**, Laurence L. Henry and Challa S.S.R. Kumar *J. Mater. Chem.* 18 (7), 2008, 738 – 747.
- (27) What is the smallest saturated acyclic alkane that cannot be made, **K. M. Nalin de Silva** and Jonathan Goodman, *J. Chem. Inf. Model.* 2005, 45, 81-87. (one of the most accessed articles in 2005 at ACS)
- (28) Gel phase MAS ^1H NMR as a probe for supramolecular interactions at the solid-liquid interface. Yolanda de Miguel, Nick Bampos, **K. M. Nalin de Silva**, Steven Richards and Jeremy K. M. Sanders, *J. Chem. Soc., Chem. Commun.*, 1998, 2267.
- (29) Effect of twist angle on calculated second order nonlinear responses of novel charge transfer systems, Sriyanka Mendis and **K. M. Nalin de Silva**, *Internet Electronic Journal of Molecular Design*, 2005, 4, 226-234.
- (30) Meso- β doubly linked and meso-meso, β - β , β - β triply linked oligoporphyrin molecular tapes as potential non linear optical (NLO) materials: Quantum chemical calculations, **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 726/1-3 (2005), 39-45.
- (31) Comparison of molecular hyperpolarizabilities of fluorenyl molecular system calculated from ab initio and semi empirical methods, **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 725/1-3 (2005), 243-246.
- (32) Investigations of nonlinear optical properties of organometallic complexes using high accuracy Density Functional Theory (DFT) calculations, Ireshika C. de Silva, Rohini M. de Silva and **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 728/1-3 (2005), 141-145.
- (33) Molecular Mechanics (MM), Molecular Dynamics (MD) and Semi-empirical study of Co^{2+} , Cu^{2+} , Ni^{2+} and Cd^{2+} binding to N-terminal of Human Serum Albumin (HSA), Suresh de Silva, Rohini M. de Silva and **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 711/1-3 (2004) 73-81.
- (34) Are donor-acceptor aromatic systems NLO active?, Amila K. Jeewandara and **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 686(2004) 131-136.
- (35) Ab initio investigations of cobalt binding at the N-terminus of Human Serum Albumin (HAS), S. N. Apitawalage, Rohini M. de Silva, **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 2012 (Submitted, Full paper)
- (36) Theoretical investigations of donor-acceptor aromatic systems, Anusha Cooray and **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM* 678/1-3 (2004) 223 – 231.

- (37) A comprehensive study of novel charge transfer molecular systems: A semi empirical investigation, Sriyanka Mendis and **K. M. Nalin de Silva**, *Journal of Molecular Structure: THEOCHEM*, 678/1-3 (2004), 31-38.
- (38) Push-pull porphyrins as nonlinear optical materials: Ab initio Quantum Chemical Calculations, Aashani Tillekerathne, Rohini M. de Silva and **K. M. Nalin de Silva**, *J. Mol. Structure: THEOCHEM*, 638 (2003), 169 – 176.
- (39) Nonlinear optical properties of novel organometallic systems: Density Functional Theory calculations, Poornima Liyanage, Rohini M. de Silva and **K. M. Nalin de Silva**, *J. Mol. Structure: THEOCHEM*, 639 (2003), 195 – 201.
- (40) Nonlinear Optical Properties of Novel Fluorenyl Derivatives – *Ab initio* Quantum Chemical Calculations, Kanchana S. Thanthiriwatte and **K. M. Nalin de Silva**, *J. Mol. Structure: THEOCHEM*, 617/1-3 (2002), 169 – 175.
- (41) Absolute rate data for reactions of atomic caesium Cs ($6^2S_{1/2}$), determined by time-resolved laser-induced fluorescence following pulsed irradiation. **K. M. Nalin de Silva** and D. Husain, *Z. Phys. Chem.*, 216 (2002) 775 - 789.
- (42) Kinetic measurements of fluorine, bromine and iodine atom-abstraction reactions at elevated temperatures by ground-state atomic rubidium, $Rb(5^2S_{1/2})$, studied by time-resolved laser-induced fluorescence. E. Martinez, J. Albaladejo, E. Jimenez, A. Notario, D. Husain and **K. M. Nalin de Silva**. *J. Photochem. Photobiol., A:Chem.* 142, 1-8, 2001.
- (43) Reactions of ground state atomic-rubidium at elevated temperatures investigated by time-resolved laser-induced fluorescence [$Rb(5^2P_{3/2}-5^2S_{1/2})$; $\lambda = 780$ nm]. **K. M. Nalin de Silva** and D. Husain, *Anales de Quimica Int. Ed.* 94: 295-301, 1998.
- (44) Kinetic investigation of chlorine atom-abstraction reactions by ground state atomic rubidium, $Rb(5^2S_{1/2})$, by time-resolved laser-induced fluorescence [$Rb(5^2P_{3/2}-5^2S_{1/2})$; $\lambda = 780$ nm] following pulsed irradiation. **K. M. Nalin de Silva**, S. A. Carl and D. Husain, *Z. Phys. Chem.*, 203, 113-130, 1998.
- (45) Bromine atom abstraction reactions at elevated temperatures by ground state atomic rubidium, $Rb(5^2S_{1/2})$, investigated by time-resolved laser-induced fluorescence [$Rb(5^2P_{3/2}-5^2S_{1/2})$; $\lambda = 780$ nm]. **K. M. Nalin de Silva** and D. Husain, *J. Photochem. Photobiol., A:Chem.* 111, 1-7, 1997.

Research Communications (2013 – 2016):

- (1) USE OF HYDROXYAPATITE COATED IRON OXIDE NANOPARTICLES (HAP/IONPS) FOR THE PURPOSE OF ANTI-CANCER DRUG DELIVERY TO

- BREAST CANCER CELLS Danushika C Manatunga, W. Rohini M de Silva, G.N.Malavige, D.T.Wijeratne and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (2) MONTMORILLONITE NANOCOMPOSITES FOR WATER PURIFICATION B.P.M. Mendis, Rohini M. de Silva, K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (3) COMPARISON OF LOADING PROPERTIES OF CURCUMIN WITH RESPECT TO THE METAL CENTER IN DIFFERENT METAL ORGANIC FRAMEWORKS Vihanga K. Munasinghe, Dilhan Manawadu, M. Infas H. Mohideen, W. Rohini .M. de Silva, and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (4) PHOTOCATALYTIC REDUCTION OF Cr(VI) IONS TO Cr(III) IONS USING META-TITANIC ACID Nadeera Dilshan Wickramasinghe, H.D.A. Chathumal Jayaweera, Rohini M. de Silva, K. M. Nalin de Silva and Induni Siriwardena, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (5) MAGNETITE-CARBON FIBER NANOCOMPOSITE AS HEAVY METAL SCAVENGERS FOR WATER PURIFICATION APPLICATIONS Induni W. Siriwardane, Rohini M. de Silva and K. M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (6) THEORETICAL INVESTIGATIONS OF INTERACTION OF COMPOUNDS PRESENT IN SWEAT WITH POLYESTER FABRICS S.T. Wetthasinghe , Rohini De Silva and K.M. Nalin De Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (7) Pd(II) COORDINATED THIOL FUNCTIONALIZED MAGNETITE NANOPARTICLES FOR HIS-TAGGED PROTEIN ISOLATION N.G.H. Raviranga, C.D. Goonesinghe, K.M.Nalin de Silva, Rohini M. de Silva and N.V. Chandrasekharan, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
 - (8) MULTI-WALLED CARBON NANOTUBES FROM COCONUT SHELLS Sivanayani Nagenthiran, Rohini M. de Silva, K. M. Nalin de Silva and Gehan A. J. Amarathunga, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.

- (9) ENHANCING THE PROPERTIES OF METAL OXIDE NANOPARTICLES BY USING GREEN SYNTHESIS METHODS R. W. L. Naduni Rajapakse¹ , K. M. Nalin de Silva, W. Rohini M. de Silva, Sashiprabha M. Vithanarachchi, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (10) APPLICATIONS OF A RECYCLABLE HETEROGENEOUS Au/Pd BIMETALLIC CATALYST IN ORGANIC OXIDATION AND REDUCTION REACTIONS C.D. Goonesinghe, M.M. Shaik, R.J. Ratnaweera, N.G.H. Raviranga, R.C. Walgama, W.R.ohini M. de Silva, K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (11) A NOVEL, FACILE, AND GREEN CHEMICAL ROUTE TO GOLD NANOPARTICLES Maheshika Perera, Lahiru A. Wijenayaka, K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (12) PREPARATION AND CHARACTERIZATION OF ALGINATE BASED CURCUMIN NANOPARTICLES AS A POTENTIAL ANTIBACTERIAL AGENT Bhagya Kadugammulla, Maheshika Perera and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (13) DEVELOPMENT OF GEOPOLYMER NANOCOMPOSITES FOR APPLICATIONS IN WATER PURIFICATION TECHNOLOGY P.G.E.H. Gamage¹ , W. R.ohini M. de Silva, K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (14) THEORETICAL INVESTIGATION OF ORGANIC PHOTOVOLTAIC SYSTEMS R. J. Ratnaweera, W. Rohini M. de Silva and K. M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (15) MOLECULAR ADSORPTION OF H₂ ON SMALL SILVER- COPPER BIMETALLIC NANOPARTICLES: A SEARCH FOR NOVEL HYDROGEN STORAGE MATERIALS G.S.M. Perera , P.T. Kodippily, J. W. Hewage, and K. M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (16) HEMOCOMPATIBILITY OF POLYETHYLENEIMINE (PEI) AND POLYETHYLENEIMINE-IRON OXIDE NANOPARTICLES (PEI-IONPS) ON PLATELET MEMBRANE INTEGRITY AND ERYTHROCYTE MEMBRANE DAMAGE USING LACTATE DEHYDROGENASE (LDH) ASSAY AND HEMOLYSIS ASSAY Balasooriya, E.R, Jayasinghe, C.D, De Silva, R.M, De Silva, K.M.N, Chandrasekharan, N.V and Udagama, P.V, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.

- (17) FLEXIBLE, LIGHT WEIGHT, AND REUSABLE NANOCOMPOSITE PACKAGING FOR HEATING APPLICATIONS Lakshitha R. Pahalagedara, Rangika de Silva, Induni Siriwardena, and K. M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (18) PREPARATION OF CONDUCTIVE SILVER NETWORKS FROM THERMAL ANNEALING OF ELECTROSPUN FIBERS Ruchira N. Wijesena, Nadeeka D. Tissera, A. Senthilnathan and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (19) DEVELOPMENT OF SUPERHYDROPHOBIC SURFACES USING NANOMATERIALS S.D.M. Siddhiaratchi¹ , W.R.M. de Silva¹ and K.M.N. de Silva¹ International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (20) PREPARATION OF KERATIN PROTEIN NANO FIBERS FROM MERINO WOOL YARN Nadeeka D. Tissera, Ruchira N. Wijesena, N. Ludowyke, Rohini de Silva and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (21) PHOTOCATALYTIC ACTIVITY OF PRISTINE AND BORON DOPED ZrO₂ NANOPARTICLES W.R.L.N.Bandara, D. Dahanayake, W. Rohini M. de Silva and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (22) GRAPHENE OXIDE-HYDROXYAPATITE NANOCOMPOSITE FOR THE REMOVAL OF LEAD AND FLUORIDE IONS IN WATER Ruwanthika, R.W.D 1 , De Silva, R.M² and De Silva, K.M.N, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (23) CELLULOSE FIBERS GRAFTED WITH GRAPHENE OXIDE AND REDUCED GRAPHENE OXIDE AS EFFICIENT ADSORBENTS FOR REMOVAL OF HEAVY METAL IONS Kulatheepan, T, Nadeeka D. Tissera, Ruchira N. Wijesena, Veromee K. Wimalasiri and K. M. Nalin De Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (24) SUZUKI-MIYaura CROSS COUPLING REACTION CATALYSED BY A MAGNETICALLY RETRIEVABLE BIMETALLIC Au/Pd NANOCATALYST C.D. Goonesinghe, R.J. Ratnaweera¹ , N.G.H. Raviranga, W.Rohini M. de Silva, and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.

- (25) EVALUATION OF IMMUNOTOXICITY OF NANOMATERIAL FOR SAFE GENE DELIVERY Balasooriya, E.R, Jayawardena, U.A, Jayasinghe, C.D, De Silva, R.M, De Silva, K.M.N and Udagama, P.V, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (26) FACILE SYNTHESIS OF CONDUCTIVITY TUNABLE DIFFERENT COLORED CuS NANOPARTICLES ON CuSCN E.V.A. Premalal, Yasun Y. Kannangara and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (27) SYNTHESIZING MgO AND ZrO₂ NANOFIBRES BY ELECTROSPINNING Palihawadana, T.C., Rathnayake, S.P., De Silva, R.T., Mantilaka, M.M.M.G.P.G., De Silva, K. M. N and Amarathunga, G.A.J, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (28) PRECURSOR MEDIATED ONE-POT SYNTHESIS OF THE NANOSILVER RAINBOW: IMPLICATIONS FOR MORPHOLOGICAL EVOLUTION AND THE ENSUING PROPERTIES Lahiru A. Wijenayaka¹, Induni W. Siriwardena, Anoja Senthilnathan, Damayanthi Dahanayake, and K. M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (29) CARBON QUANTUM DOTS-ADSORBED ZIRCONIA NANOPARTICLES AS EFFICIENT PHOTOCATALYST S. P. Ratnayake, M. M. M. G. P. G. Mantilaka, D. Dahanayake, K. M. N. de Silva and G. A. J. Amaratunga, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, December 2016.
- (30) Nanocomposite modified by nanohybrid for aerospace applications, Dulani Kuruppu, Rohini M. de Silva and K.M. Nalin de Silva, 7th International Conference on Mechanical and Aerospace Engineering (ICMAE) 18 – 22 July 2016, London, United Kingdom.
- (31) Genotoxicity assessment of polyethyleneimine (PEI) and polyethyleneimine iron oxide nanoparticles (PEI-IONPs) by the Allium cepa bioassay Eranga R. Balasooriya, Uthpala A. Jayawardena, Chanika D. Jayasinghe, Rohini M. de Silva, Nalin de Silva, N. V. Chandrasekharan and Preethi V. Udagama, International Conference in Nanoscience and Nanotechnology, Sabaragamuwa University, 25th -27th April 2016.
- (32) Facile synthesis and characterization of natural polysaccharide hydroxyapatite nanobiocomposite, Danushika Manatunga, Rohini M. de Silva and K.M. Nalin

de Silva, Advanced Materials World Congress, Baltic Sea, Viking Line Cruise, Stockholm, Sweden, 23-26 August 2015.

- (33) Nano enriched granular activated carbon as a water filter matrix with heavy metal adsorption, Malsha Udayakantha, Rohini M. de Silva and K.M. Nalin de Silva, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2015.
- (34) Fabrication of novel green flame retardant nanocomposite for interior wall panels in aircraft applications, Dulani Kuruppu, Rohini M. de Silva, 2014, Advances in Materials and Processing Technology Conference November 17 - 20, Dubai, UAE
- (35) Nano enriched granular activated carbon as a water filter matrix with heavy metal adsorption, Malsha Udayakantha, Rohini de Silva and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2015.
- (36) Polyaniline nano whiskers grafted conductive cotton textiles, Nadeeka Tissera, Ruchira Wijesena, **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2015.
- (37) Microwave absorbing properties of Polyaniline/MWCNT/THT nanocomposites, Yasun Kannangara, Vikum Premalal, Gamini Rajapakse, **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2015.
- (38) Modified Activated Carbon to be used in Acute Iron Toxicity, M. S. Fernando Rohini M. de Silva and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (39) Electricity conductive cotton fabric using reduced graphene oxide dye, Nadeeka Tissera, Ruchira Wijesena and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (40) Green nanocomposite having flame retardant property for interior wallpanels in Aircraft applications, Dulani Kuruppu, Rohini M. de Silva and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (41) Ultrasound induced cavitation for efficient dyeing of knitted cotton fabrics, Nadeeka Tissera, Ruchira Wijesena, Rangana Perera, Laleen Karunanayake,

- Ajith de Alwis and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (42) Extraction and characterization of chitin and chitosan biopolymers from local portunus pelagicus (blue swimmer crab), Ruchira Wijesena, Nadeeka Tissera and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (43) Comparative study on the use of different non- fluorinated hydrophobization agents to create increased hydrophobicity on cotton fabrics, Dhanushika Manathunge and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (44) Reinforcement of Impact resistant fabrics using the Shear Thickening Behavior of Colloidal Dispersions, Ishara Dharmasena, Ruchira Wijesena, Nadeeka Tissera and **K.M. Nalin de Silva**, International Conference on Nanoscience and Nanotechnology, Colombo, Sri Lanka, August 2014.
- (45) Analysis of Textile Sludge to Develop an Organic Fertilizer T.D Maddumapatabandi, W. Rohini M. de Silva and **K. M. Nalin de Silva**, Annual Conference of South Asian Institute for Technology and Medicine, Sri Lanka, May 2014.
- (46) Synthesis of graphite and graphene oxide based nanocomposites and their characterization, T. Dissanayake, **K.M. Nalin de Silva**, W. Rohini. M de Silva, A. R. Kumuarasinghe, Annual Conference of South Asian Institute for Technology and Medicine, Sri Lanka, May 2014.
- (47) Synthesis of iron oxide nanoparticles and functionalization with silica for DNA purification, W. Tilini D. Perera, W. Rohini M.de Silva, N.V. Chandrasekharan and **K.M. Nalin de Silva**, Annual Conference of South Asian Institute for Technology and Medicine, Sri Lanka, May 2014.
- (48) Synthesis of iron oxide nanoparticles functionalized with silica for DNA purification M. A. Kosswattaarachchi, Rohini M de Silva, C. Chandrasekharan and **K. M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 68 - 71.
- (49) Preparation of Granular Activated Carbon (GAC) hydroxyapatite nano composite (C-HAp) and compare its effectiveness over Pure GAC and neat Hydroxyapatite (HAp) to adsorb heavy metal ions. M. Shanika Fernando,

Rohini M. De Silva, Ananda Hettiarachchi and **K. M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 148 - 150.

- (50) Synthesis of iron oxide nanoparticles functionalized with polyethyleneimine (PEI) for DNA binding and gene delivery, D C Manatunga, Rohini M de Silva, C Chandrasekharan, and **K. M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 65 - 67.
- (51) Synthesis and properties of metal oxide/hydroxide based nanocomposites of activated carbon. Ranodhi N. Udangawa, Rohini M. de Silva, Ananda Hettiarachchy and **K. M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 161 - 163.
- (52) Synthesis of multilayered carbon nano structures using coconut shells, O.R. Jayah, Rohini M. de Silva, Ananda Hettiarachchy and **K.M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 158 - 160.
- (53) Antifungal activity of surface modified nanoparticles, R S W A Jayathialke , Rohini M. de Silva, Ravi Wijesundara and **K. M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 132 - 134.
- (54) Use of magnetic nanoparticles to separate single and double stranded DNA, A.K.D.V.K. Wimalasiri, Rohini M. De Silva, C Chandrasekharan and **K.M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 62 – 64.
- (55) Development of a heavy metal adsorbing material by incorporating iron oxide nanoparticles with kaolin, K.P. Wasantha Lankathilaka, W. Rohini M. de Silva and **K.M. Nalin de Silva**, *National Nanotechnology Conference*, August 2012, 139 - 141.
- (56) The antifungal activity of surface modified Mn doped ZnO nanoparticles, J.C. Jayaruk, R.L.C. Wijesundera, **K.M. Nalin de Silva** and W. Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.
- (57) Development of simple procedures to synthesize different coloured silver nanoparticles, D.P.M. Mendis, A. Hettiarachchy, **K.M. Nalin de Silva** and W. Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.
- (58) Use of magnetic nanoparticles for the extraction of DNA, S.U. Siriwardena, C. Chandrasekharan, **K.M. Nalin de Silva** and W. Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.

- (59) Development of Spectroscopic method to determine the crystallization stage of human bile, T. Panduwawala, K. I. Deen, V. Abeysuriya, **K.M. Nalin de Silva** and W. Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.
- (60) Investigation of the effect of iron oxide nanoparticles impregnated activated carbon on removal of arsenic from drinking water, D.T.A. Galhena, A. Hettiarachchy, W.Rohini M. de Silva and **K.M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.
- (61) Non linear optical properties of novel conjugated organic systems: high accuracy density functional theory calculations, K.M.N. Lakmali, W. Rohini M. de Silva and **K.M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 67, 2011.
- (62) Theoretical calculations of Non Linear Optical (NLO) properties of conjugated organic systems using Density Functional Theory (DFT): Investigation of the effect of hyperpolarizability (β) on frontier orbital energies. Mewan N. Aluthbaduge, Rohini M. de Silva and **K. M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 66, 2010.
- (63) Theoretical investigations of photosynthetic reaction centres Using Density Functional Theory (DFT), Narada Wickramasinghe, Rohini M. de Silva and **K. M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 66, 2010.
- (64) Exceptional Nonlinear optical properties of thiophene and 3,4-ethylenedioxythiophene (EDOT) oligomers: Density Functional Theory (DFT) Calculations, Neranga Abeysinghe, Rohini M. de Silva, **K.M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 65, 2009.
- (65) Investigation of the antifungal effect of sodium dodecyl sulphonic acid (SDS) coated iron oxide nanoparticles on fungi extracted from painted walls. R. A. S. N. Mendis, R. L. C. Wijesundara, **K. M. N. de Silva**, Challa S. S. S. R Kumar, Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 65, 2009.
- (66) Investigation of the ability of direct coating of amino acids to iron oxide nanoparticles. D. T. L. Galhena, N. V. Chandrasekharan, **K. M. Nalin de Silva**, Rohini M. de Silva, *Proce. Sri Lan. Ass. Adv. Scie*, 65, 2009.
- (67) High accuracy theoretical calculations of NLO properties of conjugated organic systems using Hartree–Fock (HF), Møller–Plesset perturbation theory (MP2) and Density Functional Theory (DFT): A comparative investigation,

Erandi Kulasekera, Rohini de Silva, **K.M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie*, 64 2008.

- (68) Synthesis and characterization of triethanolamine metal complexes attached to the surface of magnetic iron oxide nanoparticles , T. Purnima A. Ruberu, **K.M. Nalin de Silva**, Challa S.S.R. Kumar and Rohini M. de Silva*, *Advances in Continuum Mechanics, Materials Science, Nanoscience and Nanotechnology*, Faculty of Engineering, University of Peradeniya, September 26-27, 2008,
- (69) Design, synthesis and properties of highly processable novel π -conjugated oligo-3-4-ethylenedioxythiophenes (EDOT) for electronic applications **K.M. Nalin de Silva**, Frank Fronczek and Evgueni E. Nesterov, *CHEMTECH, 2007, Colombo, Sri Lanka*.
- (70) A novel supramolecular rhodium catalyst: Design, synthesis and characterization, **K. M. Nalin de Silva**, Frank R Fronczek and Andrew W Maverick, *CHEMTECH, 2007, Colombo, Sri Lanka*.
- (71) Mechanistic investigation of the influence of surfactants on the formation of cobalt nanoparticles. Rohini M. de Silva*, Vadim Palshin, **K.M. Nalin de Silva**, Laurence L. Henry, Josef Hormes and Challa S.S.R. Kumar, *CHEMTECH, 2007, Colombo, Sri Lanka*.
- (72) A novel strategy to efficient organic photovoltaics based on self assembly. Euiyong Hwang, **K.M. Nalin de Silva**, and Evgueni E. Nesterov, The 62nd Southwest Regional Meeting of the American Chemical Society, Houston, USA (October 19-22, 2006).
- (73) Effect of twist angle on calculated second order nonlinear responses of novel charge transfer systems, Internet Electronic conference of Molecular Design, 23 November – 06 December 2003 (presented in the conference).
- (74) Designing a Water Quality Index (WQI) for Negombo Lagoon, R. S. de Silva, S. Hewage and **K. M. Nalin de Silva**, *Proce. Sri Lan. Ass. Adv. Scie.*, 56, (2000).
- (75) Determination of absolute rate constant for the reaction of atomic rubidium with N₂O by time-resolved laser induced fluorescence (LIF) following pulsed photolysis. **K. M. Nalin de Silva** and D. Husain, Annual Sessions, Faculty of Science, University of Colombo, 7, 2000.

- (76) Photolysis of 9-fluorinyl phenylacetate : A novel photoremovable protecting group for carboxylic acids.(Part of the final year undergraduate project, B.Sc. Special in Chemistry) **K. M. Nalin de Silva** and M.D.P. de Costa, *Proce. Sri Lan. Ass. Adv. Scie.*, 48,127 (1992).

Patents filed in the United States Patent and Trademark Office (USPTO) – September 2013 - 2016:

- (1) HYDROPHOBIC SURFACE TREATMENTS COMPOSITIONS COMPRISING TITANIUM PRECURSORS. (Application numbers is 14/024879). This was extended as an International Patent in 2014.
- (2) MOISTURE MANAGEMENT FABRIC (application number is 14/024906) This was extended as an International Patent in 2014.
- (3) NEAR INFRARED ENERGY ABSORBING TEXTILE (USPTO, May 2016)
- (4) TEXTILE MATERIAL AND PROCESS FOR OBTAINING THE SAME (USPTO, MAY 2016)

COMMERCIAL SUCCESSES IN PROJECTS AT SLINTEC:

1. Development of a **Low cost biodegradable fabric softener for better hand feel** for Textured Jersey (Private) Limited. The technology was transferred to Textured Jersey and implemented in the commercial scale from October 2014 at their factory in Export Processing Zone, Awissawella, Sri Lanka. SLINTEC receives a royalty payment from TJ. (\$ 50,000 received and 15% of the net saving due to this technology will be transferred to SLINTEC)
2. US Patent "Hydrophobic Surface Treatments" was sold to Lankem (Private) Limited, September 2014. (\$ 200,000 was received)
3. Development of a coating to block UV radiation from CFL Bulbs. This product will be commercialized by Orel Electricals (Manufacturer of Orange CFL Bulbs). The product is in the bulk production stage at the Orel factory for further testing before releasing to the market. (Total sales 400,000 bulbs per month and royalty per bulb has been negotiated)
4. Successful projects with MAS (Moisture Management in Polyester and Nylon fabrics), Brandix, Hayleys, DSI (Footwear Coating) and Lankem. Negotiations are underway with MAS (\$ 350,000) and DSI (\$ 250,000).

INTERNATIONAL WORKSHOPS AND MEETINGS:

- UK-Sri Lanka Mini Symposium on Nanomaterials, The School of Pharmacy, University College London, 22 September 2016, UCL, London, UK.
- Technical Workshop for the Asia-Pacific Region on Nanosafety Issues, 10-11 September 2015, Bangkok, Thailand organized by United Nations Institute for Training and Research (UNITAR) in collaboration with Nanotech Thailand.
- Expert Group Meeting (EGM) on Testing, Standardization and Certification of Nanomaterials and Nanoproducts, 23 July 2014. Manila, Philippines, Organized by Asian and Pacific Centre for Transfer of Technology and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP).
- Stakeholder Workshop on Critical Aspects of Nanotechnology R&D Management, 24th and 25th July 2014. Manila, Philippines, Organized by Asian and Pacific Centre for Transfer of Technology and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP).
- 11th Asia Nano Forum Summit (ANFoS2014), 24 – 25 September 2014, Suzhou, China.
- Chinano 2014 Conference and Expo, 24 – 25 September 2014, Suzhou International Expo Center, Suzhou, China.
- Regional Open Innovation Forum (OIF) on Promoting Nanotechnology and Agriculture for Sustainable Development, 27 – 28 October 2014, Selangor, Malaysia.
- Nano Malaysia, 27 – 28 October 2014, Selangor, Malaysia.
- International Workshop on Nanotechnology organized by Dhaka University and Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, September 2012.

KEYNOTE SPEECHES AND ORATIONS:

- International Workshop on Nanotechnology organized by Dhaka University and Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, September 2012 (Keynote Lecture)
- Professor P.P.G.L. Siriwardena memorial gold medal oration, May 2009 (Institute of Chemistry, Ceylon) (oration)
- International Conference on Nanoscience and Nanotechnology, Colombo (Galadari Hotel), 12th and 13th August 2014. (Keynote Address and Conference Chair)

- International Conference on Nanoscience and Nanotechnology, Colombo, Galadari Hotel, 2-4 September 2015 (Keynote Address and Conference Chair)
- International Conference on Bioscience and Biotechnology, Colombo, Galadari Hotel, 12-14 January 2016.

HONOURS AND AWARDS (ACADEMIC):

- (1) President's Award for Scientific Publications, 2016 (Awarded by the H.E. The President of Sri Lanka)
- (2) National Science Foundation Research Awards 2008 (Awarded in 2010) (National Award)
- (3) Presidential Award for Research for the years 2002, 2003, 2004 and 2005. (Awarded By the H.E. The President of Sri Lanka)
- (4) Professor P.P.G.L. Siriwardena Gold Medal Oration Award - 2009 (Awarded by Institute of Chemistry, Ceylon)
- (5) Devanathan Memorial Award – 2008 (Awarded by Institute of Chemistry, Ceylon)
- (6) Young Scientist of the Year – 2004 (Sri Lanka) (Awarded by National Science Foundation of Sri Lanka and The World Academy of Sciences (TWAS, Italy).
- (7) Academic Staff Postgraduate Commonwealth Scholarship – 1994 - 1997, University of Cambridge, UK. (The Commonwealth Commission in the UK, Association of Commonwealth Universities and The British Council).
- (8) Academic Visitor – Prof. Jeremy K. M. Sanders Research Group, Department of Chemistry, University of Cambridge, UK in 1998.
- (9) Academic Visitor – Dr. Nick Bampos, Department of Chemistry, University of Cambridge
- (10) Unilever Centre for Molecular Informatics, Department of Chemistry, University of Cambridge, UK (April – June 2003).
- (11) Postdoctoral Award – Prof. Evguinei Nesterov, Department of Chemistry, Louisiana State University, Baton Rouge, LA, USA (1 March 2005 – 27 February 2006).
- (12) Postdoctoral Award – Prof. Andrew Maverick, Department of Chemistry, Louisiana State University, Baton Rouge, LA, USA (1 March 2006 – to date).
- (13) Fellow of the Cambridge Commonwealth Society (Patron: HRH The Prince of Wales).

- (14) Bhikaji Framji Khan **Gold medal for Chemistry** - 1992. This Gold medal is presented to the candidate who earns the highest overall average in B.Sc. special degree in Chemistry, University of Colombo, Sri Lanka.
- (15) Justin Samarasekara award (**Most outstanding science student of the year**) - 1992 This award is presented, taking into consideration the academic performance and the contribution made to the sports and the student community of the University of Colombo, Sri Lanka.
- (16) Mrs. Charlotte Peiris scholarship for Chemistry - 1991. This award is presented to the candidate who earns the highest average in the second year examination in Natural Science, University of Colombo, Sri Lanka.
- (17) Dr. C. L. De Silva memorial prize for Chemistry - 1991. This is awarded for the highest aggregate in first and second year examinations in Chemistry, University of Colombo, Sri Lanka.

PROFESSIONAL EXPERIENCE:

- (1) Professor in Chemistry, Department of Chemistry, University of Colombo, Sri Lanka. (Feb 2005 – to date) (Directly promoted to full Professor from Senior Lecturer Grade II just after 6 years from the PhD and became the youngest Professor in the University of Colombo) (Presently on Secondment Leave from the University to work at SLINTEC Pvt. Ltd.)
- (2) Science Team Leader, Sri Lanka Institute of Nanotechnology (SLINTEC), Nanotechnology and Science Park, Mahenwatta, Pitipana, Homagama, Sri Lanka. (May 2012 – to date)
- (3) Visiting Consultant, Department of Chemistry, Sultan Qaboos University, Sultanate of Oman. (September 2011 to January 2012)
- (4) Senior Lecturer II, Department of Chemistry, University of Colombo, Sri Lanka. (Oct 1998 – Feb 2005).
- (5) Director, Career Guidance Unit, University of Colombo, Sri Lanka (July 2003 – March 2005)
- (6) Director, Graduate Foundation, University of Colombo, Sri Lanka (November 2003 – March 2005)
- (7) Visiting Lecturer, American National College (ANC), Colombo (Adjunct Faculty Member – Patten University, California, USA), 2004 – to date.

- (8) Visiting Lecturer, Monash College affiliated to Monash University, American National College, 2007 – 2010.
- (9) Lecturer, Department of Chemistry, University of Colombo, Sri Lanka. (1993 - 1998), Promoted to Senior Lecturer after the Ph.D. (Study leave during 1994 – 1998).
- (10) Visiting Lecturer, University of Kelaniya, Sri Lanka. (2001 – 2003).
- (11) Visiting Lecturer, University of Sri Jayawardhanpura, Sri Lanka. (2000-2001).
- (12) Visiting Lecturer, Institute of Chemistry, Sri Lanka (2000 – 2003)
- (13) Supervisor, Department of Chemistry, University of Cambridge, UK. (1997 - 1998).
- (14) Demonstrator, Department of Chemistry, University of Cambridge, UK. (1994 - 1998).
- (15) Assistant Lecturer, Department of Chemistry, University of Colombo, Sri Lanka. 1992-1993.
- (16) Teaching Assistant, Institute of Chemistry, Sri Lanka. 1992-1994
- (17) Management Trainee, Lanka Polythene Industry, Sri Lanka. 1987-1990

TEACHING EXPERINCE:

- Teaching and laboratory experience as a Senior Lecturer and a Professor in the Department of Chemistry, University of Colombo, Sri Lanka. 1998 – to date.
- Visiting Consultant, Department of Chemistry, Sultan Qaboos University, Sultanate of Oman. (September 2011 to January 2012)
- Visiting Professor, Monash College, American National College, 2007 – to date (Monash College is affiliated to the Monash University, Australia)
- Introduced the first ever course in Chemistry at American National College (Affiliated to the Patten University, California, USA), Sri Lanka, 2004
- Visiting Lecturer – University of Sri Jayawardenapura (2000) and University of Kelaniya , Sri Lanka, (2001 – 2002)
- Three years laboratory experience as a demonstrator (Part 1A and 1B) at Department of Chemistry, University of Cambridge, UK. 1994 - 1997.

- Two years teaching experience as a supervisor (Part 1A and 1B) at Department of Chemistry, University of Cambridge, UK. 1997-1998.
- Chief Examiner, G. C. E. (A/L) Examination, Sri Lanka, 1999 and 2000.
- Examiner, London A/L and AAS practical examinations, 1999 – to date.
- Two years undergraduate and postgraduate (M.Sc.) teaching experience as a Lecturer at Department of Chemistry, University of Colombo, Sri Lanka. 1992-1994.
- Two years laboratory experience as a demonstrator at Institute of Chemistry, Sri Lanka. 1992-1994.

COMMITTEE REPRESENTATIONS, ADMINISTRATIVE POSITIONS AND OTHER ACTIVITIES - UNIVERSITY OF COLOMBO, SRI LANKA (1998 OCTOBER - TO DATE)

1. Director, Career Guidance Unit, University of Colombo (July 2003 – March 2005)
2. Director, Graduate Foundation, University of Colombo (November 2003 – March 2005).
3. Chairman, Technical Information Committee, 8th Sri Lanka University Games 2004.
4. Member of the Jury of Appeal Committee, 8th Sri Lanka University Games, 2004.
5. University Coordinator, World Bank Funding Project (IRQUE – Improving Relevance and Quality of Undergraduate Education in Sri Lanka) 2003 – March 2005.
6. Head of Implementation Unit, Local Technical Secretariat (LTS) – World Bank IRQUE project (January 2004 – March 2005)
7. Member of the Senate, University of Colombo (2003 – to date).
8. Committee Member – Standing Committee on Career Guidance in Universities, University Grants Commission, Sri Lanka (2003 – March 2005).
9. Committee Member – University of Colombo Network and Website Steering Committee – 2004 – March 2005.
10. Senior Treasurer and Advisor, The Chemical Society, University of Colombo, 2001 – March 2005.
11. Secretary (Section E2, Chemical Sciences), Sri Lanka Association for the Advancement of Science (SLAAS) 2003.

12. Member of the Executive Committee (Section E2, Chemical Sciences), Sri Lanka Association for the Advancement of Science (SLAAS) 2004.
13. Member of the Faculty of Science IT committee (2000 – 2004).
14. Member of the degree re-structuring committee, Faculty of Science, University of Colombo, 2001.
15. Member of the organizing committee, inaugural Annual Sessions, Faculty of science, University of Colombo, Sri Lanka, 2000.
16. Faculty representative of the Sports Board, University of Colombo, Sri Lanka, 2000 /2001, 2002/2003 and 2004.
17. Network Coordinator, Department of Chemistry, University of Colombo, Sri Lanka (2000 – March 2005).
18. Member of the Faculty of Science, University of Colombo Web development committee, 2001 – 2004
19. Member of the Faculty of Science, University of Colombo complaints and mediation committee, 2000 – 2001.
20. Member of the Faculty of Science, University of Colombo Computer Centre (FSCC) Management Committee – 2001- 2004
21. Member of the committee appointed by the vice-chancellor to amend the existing constitution for student societies, 2002.
22. Executive Committee member of the University of Colombo Science Teachers Association (UCSTA), 2002 - 2004.
23. Designed and developed the web page of the Department of Chemistry, University of Colombo, 2001 – 2011.
24. Member of the committee appointed by the NSF to advice the Ministry of Science and Technology on instruments for SLINTec (Sri Lanka Institute for Nanotechnology), 2007.
25. Member, Institute of Chemistry, 2007 (Life Member)
26. Coordinator, Introduction of new IT courses in the Faculty of Science, University of Colombo in collaboration with IFS, Sri Lanka, 2007 – to date.
27. Committee Member , SLAAS Science and Technology Exhibition Committee-2008.
28. Committee Member of the Career Guidance Committee, Faculty of Science, University of Colombo, 2009

NATIONAL COMMITTEES (NATIONAL SCIENCE FOUNDATION)

1. Chairman, Working Committee – Basic Sciences, National Science Foundation, Sri Lanka, September 2013 – 2016.
2. Committee Member: National Nanotechnology Committee, National Science Foundation, Sri Lanka 2008 – 2013.
3. Member of the committee to draft the Sri Lanka National Policy of Nanotechnology, 2010.
4. Chairman, National committee for nanotechnology research proposal evaluation, NSF, Sri Lanka, 2011 – 2013
5. Chairman, Sub-committee for popularization of Nanotechnology in Sri Lanka, NSF, Sri Lanka, 2011 – 2013.

NATIONAL SERVICE: POPULAR LECTURES (SCHOOLS AND UNIVERSITIES)

1. Importance in Career Guidance component in undergraduate education.
2. Personality Development Plan.
3. How to master seven intelligences to become a leader.
4. Art of CV writing.
5. Presentation skills.
6. Nanotechnology: Opportunities and Challenges.
7. Career Pathways and choosing the correct career.
8. Career opportunities in Sri Lanka.
9. How to improve the much needed soft skills.
10. Nanotechnology and its applications.
11. Molecular Modelling in Chemistry Curriculum.
12. Bioinformatics and Chemical Informatics in Drug Design (International Conference on Information Technology, University of Colombo School of Computing, Sri Lanka, 2003)

NATIONAL SERVICE: WORKSHOPS (AS A RESOURCE PERSON)

1. Chemistry teacher training workshop, 2000, 2003 and 2004 at University of Colombo.

2. Bioinformatics and Chemical Informatics in Drug Design – International conference on Information Technology, 2003, University of Colombo School of Computing.
3. Career Guidance and Social Harmony in undergraduate education in Sri Lanka – March 2004, Kandalama Hotel, Sri Lanka. (International two day workshop)
4. Curriculum Development, Department of Chemistry, University of Jaffna (IRQUE Project), September 3-7, Hotel Janaki, Colombo.
5. Nanotech 2008, University of Peradeniya (Postgraduate Institute of Science at Peradeniya (PGIS) and the Institute of Engineers) June 2008, Hotel Topaz, Kandy.
6. Nanotechnology; Opportunities and Challenges, Institute of Engineers of Sri Lanka (IESL), March, 2009
7. Are you Ready workshop in University of Moratuwa: Fundamentals of Nanotechnology, University of Moratuwa, March 2009
8. Industrial Applications of Nanotechnology: Wayamba University, Organized by the NASTEC, April 2009.
9. Introduction to Nanotechnology: GeneTech, Colombo, June 2009.
10. Career Opportunities in Nanotechnology (for School Leavers selected from UGC), NSF, June 2009.
11. Nanotechnology and its energy applications: Energy Storage Production and Conversion, Federation of Chambers of Commerce and Industry in Sri Lanka, FCCISL Auditorium, July 2009.
12. Nanotechnology and its applications, American Chambers of Commerce, Holiday Inn, August 2009.
13. How to write a research proposal, NSF, 2011.
14. Properties of Nanomaterials, 6 workshops for Zonal Science Education Directors of Sri Lanka. August 2011.
15. Important Nanomaterials, 6 workshops for Zonal Science Education Directors of Sri Lanka. August 2011.
16. Applications of Nanomaterials, 6 workshops for Zonal Science Education Directors of Sri Lanka. August 2011.
17. Activated carbon based nanocomposites for water purification, Nanotechnology Forum, Asia Pacific Consortium for Public Health (APACPH), Colombo, October 2012.
18. Train the Trainers (Academic Staff of university system) workshop to introduce nanotechnology to national curriculum (A/L), NSF, November 2012.

19. Smart Textiles: National Academy of Sciences, IFSL, 05 April 2013
20. Webinar on Introduction to Nanotechnology, during the Science Week, November 2014. (Can be viewed in Youtube)
21. Chemical Management workshop, MAS Active, September 2015.
22. Open Innovation workshop organized by the MAS Innovation, "A nano step for man, a giant leap for mankind", 18 Jan 2017.

WORKSHOPS (AS A PARTICIPANT)

1. Time Management (Staff Development Centre, University of Colombo, Sri Lanka)
2. Problem Based Learning (PBL) in undergraduate education (Staff Development Centre, University of Colombo, Sri Lanka)
3. e-learning (Department of Mathematics, University of Colombo, Sri Lanka), 2003
4. Project proposal writing for World Bank funding (World Bank, UK Consultants), 2003 – 2004 (IRQUE Project)
5. Procurement planning – World Bank IRQUE Project, 2004
6. Research Promotion Centre, UGC: Improving quality of Academia, 2004.

PRESENTATIONS (LOCAL AND INTERNATIONAL) (SCHOOL PRESENTATIONS, AS THE CHIEF GUEST IN THE EVENT)

1. "Nanotechnology Development and Commercialization in Sri Lanka – Public Private Partnership (PPP) and Collaboration with Industry", Expert Group Meeting (EGM) on Testing, Standardization and Certification of Nanomaterials and Nanoproducts, 23 July 2014. Manila, Philippines, Organized by Asian and Pacific Centre for Transfer of Technology (APCTT) and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP).
2. "National Nanotechnology Policy and National Nanotechnology Initiative, Sri Lanka", Stakeholder Workshop on Critical Aspects of Nanotechnology R&D Management, 24th and 25th July 2014. Manila, Philippines, Organized by Asian and Pacific Centre for Transfer of Technology and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP).
3. **"Nanotechnology Development and Commercialization in Sri Lanka"**, 11th Asia Nano Forum Summit (ANFoS2014), 24 – 25 September 2014, Suzhou, China.

4. **"Open Innovation for Promotion of Nanotechnology: Public-Private Partnership and Collaboration with Industry"** Regional Open Innovation Forum (OIF) on Promoting Nanotechnology and Agriculture for Sustainable Development, 27 – 28 October 2014, Selangor, Malaysia.
5. **"Nanotechnology and Smart Textiles", Key Note Address**, International Conference on Nanoscience and Nanotechnology, Galadari Hotel, Colombo, 12th and 13th August 2014.
6. "Leadership, personal effectiveness and self-benchmarking" and "Nanotechnology", February 2014, Faculty of Medicine, Ragama, Sri Lanka
7. "Nanotechnology applications for Sri Lanka Navy", February 2014, Navy Head Quarters, Colombo, Sri Lanka.
8. "Introduction to Nanotechnology", July 2014, University of Ruhuna, Matara, Sri Lanka.
9. "Introduction to Nanotechnology and Careers in Science", March 2014, Sirimavo Bandaranayake School, Colombo, Sri Lanka.
10. "Planning a Career in Academia and Research, and Introduction to Nanotechnology", May 2014, Workshop organized by the Career Guidance Unit, Faculty of Science, University of Colombo, Sri Lanka.
11. "Password for Success for Undergraduates and Introduction to Nanotechnology", May 2014, Workshop Organized by the Department of Chemistry, University of Colombo, Sri Lanka.
12. "Introduction to Nanotechnology", March 2014, Vidatha Officers, Organized by Ministry of Technology and Research, Sri Lanka.
13. "Introduction to Nanotechnology", July 2014, Vidatha Officers, Organized by Ministry of Technology and Research, Sri Lanka.
14. "Introduction to Nanotechnology", November 2014, Webinar, Youtube, Sri Lanka Institute of Nanotechnology, Sri Lanka.
15. "Nanotechnology opportunities and Challenges" February 2014, Christ Kings College, Kandana, Sri Lanka.
16. "Applications of Nanotechnology for Water Purification", October 2014, Industrial Development Board (IDB), Rathmalana, Sri Lanka.
17. "Nanotechnology Opportunities and Challenges", March 2014, Wesley College, Colombo, Sri Lanka.
18. "Nanotechnology: A New Approach in Herbal Medicine", Workshop: Sustainable Utilization of Sri Lanka's Biodiversity: the Role of the Chemist, Institute of Chemistry, June 2014.

19. "Careers in Chemistry and Introduction to Nanotechnology" May 2014, Inauguration Ceremony for M.Sc. Applied Organic Chemistry, University of Colombo, Sri Lanka.
20. "Careers in Chemistry and Introduction to Nanotechnology": June 2014, Inauguration Ceremony for M.Sc. Analytical Chemistry, University of Colombo, Sri Lanka.
21. "Effective Research proposal Writing", August 2014, NSF, Ministry of Technology and Research, Sri Lanka.
22. "Nanotechnology and Its Applications in Environmental Management, December 2014, Central Environment Authority (CEA), Colombo, Sri Lanka.
23. "Effective Research Proposal Writing: Evaluator's Point of View", December 2014, NSF, Ministry of Technology and Research, Sri Lanka.
24. "Careers in Science and Personality Development Plan", Methodist College, Colombo, Oct 2014
25. "Careers in Science and Commercial aspects of nanotechnology", Gothami Balika Vidyalaya, Colombo, Oct 2015.
26. "Careers in Science and Commercial aspects of nanotechnology", Bandaragama Central College, Bandaragama, Oct 2015.
27. "Careers in Science and Commercial aspects of nanotechnology", Karandeniya Central, Ambalangoda, Oct 2015.
28. "Careers in Science and Commercial aspects of nanotechnology", Mahinda Rajapaksha School, Homagama, November 2015.

MONOGRAPHS:

1. Energetics and Equilibria
2. Energetics for Biochemists
3. Symmetry in Chemistry
4. Molecular Modelling
5. Internet and Chemistry

LECTURES AND LABORATORY COURSES CONDUCTED AS A SENIOR LECTURER / PROFESSOR IN THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF COLOMBO (UOC) (1998 – TO DATE)

1. **Chemical Thermodynamics** (15 lectures, First year undergraduates, UoC, 2000 – to date)
2. **States of Matter** (10 lectures, First year undergraduates, UoC, 1999)
3. **Phase Equilibria** (10 Lectures, First year undergraduates, UoC, 1999, 2001-2005)
4. **Applications of Thermodynamics** (12 lectures, Second year undergraduates, UoC, 1998 – 2005)
5. **Fundamentals of Spectroscopy and Molecular Spectroscopy** (12 lectures, Second year undergraduates, UoC, 1998 – to date).
6. **NMR , IR and Mass Spectrometry** (12 lectures, Second year undergraduates, UoC, 2000, 2007- to date)
7. **Photochemistry and Kinetics** (12 lectures, Third year undergraduates, UoC, 1998 – to date)
8. **Intermolecular forces and Molecular Dynamics** (12 Lectures, Third year undergraduates, UoC, 2001 – to date)
9. **Supramolecular Chemistry and Molecular Recognition** (12 Lectures, Third year undergraduates, UoC, 2002 – to date)
10. **Advanced Thermodynamics** (10 Lectures, Third year undergraduates, UoC, 1998 – 2001 and Fourth year undergraduates, UoC, 2002 – to date)
11. **Advanced Kinetics** (15 Lectures Fourth year undergraduates, UoC, 1998 – 2001, 2008 – to date Third year undergraduates-University of Kelaniya, 2001)
12. **Chemistry of Extraterrestrial Atmospheres** (10 Lectures, Fourth year undergraduates, UoC, 1998 – 2001)
13. **Atmospheric Chemistry** (7 Lectures, Fourth year undergraduates, UoC, 2001 – to date)
14. **Bioinorganic Chemistry** (10 Lectures, Fourth year undergraduates, UoC and 7 Lectures Third year biochemistry undergraduates, UoC, 2001)
15. **Symmetry and Group Theory** (10 Lectures, Third year undergraduates, University of Kelaniya, 2000 – to date)
16. **Advanced molecular spectroscopy** (18 lectures, Fourth year undergraduates, University of Kelaniya, 2000 – 2002)
17. **Inorganic spectroscopic methods** (NMR, NQR, ESR, MB) and X-Ray crystallography (20 lectures, Institute of Chemistry, Ceylon, 2000 – 2003)
18. **Solid State Chemistry** (6 Lectures, Institute of Chemistry, Ceylon, 2000)
19. **Solid State Chemistry** (10 Lectures, University of Sri Jayawardhanapura, 2000)
20. **Statistical Thermodynamics** (10 Lectures, Institute of Chemistry, 2000)
21. **Surface Chemistry** (7 Lectures, Fourth Year undergraduates, UoC, 2001)
22. **Surface Analytical Techniques** (8 Lectures, Fourth year undergraduates, UoC, 2001)
23. **Bioinformatics** (10 Lectures, Fourth year undergraduates, UoC, 2002 to date)
24. **Quantum Mechanics** (10 Lectures, Second Year undergraduates, UoC, 2003)
25. **Mathematics for Biology** (20 lectures, First year undergraduates, UoC, 1999 – 2001)
26. **Protein Folding** (10 Lectures, Second Year Undergraduates, UoC, 2004)
27. **General Chemistry I** (48 Lectures, First Year Undergraduates, American National College, Patten University, California, USA, May – August 2004, 2009-2011)

28. **General Chemistry II** (48 Lectures, First Year Undergraduates, American National College, Patten University, California, USA, May – August 2011)
29. **Practical Course** (36 hours, First Year Undergraduates, American National College, Patten University, California, USA, May – August 2004)
30. **Practical Course** (250 hours, First year undergraduates, UoC, 1998 – to date)(Introduced the first ever course on molecular modelling & computational chemistry and Instrumentation practicals to first year undergraduates in 2000)
31. **Practical course** (140 hours, Third year undergraduates, UoC, 2000 and 2003)
32. **Fundamentals of Chemistry MCD 1170** (12 lectures, Monash College. Sri Lanka - Monash University, Australia)
33. **Fundamentals of Chemistry MCD 1190** (12 lectures, Monash College. Sri Lanka - Monash University, Australia)
34. **Chemistry for Engineers MCD 4150** (12 lectures, Monash College, Sri Lanka - Monash University, Australia, 2007-2009)
35. **Advanced X-ray Crystallography** (10 lectures, Fourth year undergraduates UoC, 2008 – to date)
36. **Organic Photochemistry** (12 lectures, Fourth year undergraduates, UoC, 2009)
37. **Molecular Emission Spectroscopy** (8 lectures, MSc in Analytical Chemistry, 2008)
38. **Atomic Absorption and Emission Spectroscopy** (10 lectures, MSc in Analytical Chemistry, 2009)
39. **Molecular Spectroscopy (UV/Vis, IR, NMR and Mass)** (18 lectures, MSc in Analytical Chemistry, UoC, 2009)
40. **Nanotechnology including TEM, AFM and STM** (5 lectures, MSc in Applied Organic Chemistry, UoC, 2009)
41. **History and Philosophical Development of Chemistry** (15 lectures, MSc in Chemistry Education, UoC, 2007 – to date)
42. **Calculations and Mathematics in Chemistry** (15 lectures, MSc in Chemistry Education, UoC, 2007 – to date)
43. **Applications of Chemistry** (12 lectures, MSc in Chemistry Education, UoC, 2007 – to date)
44. **Chemicals in Society** (12 lectures, MSc in Chemistry Education, UoC, 2007 – to date)
45. **Environment Chemistry and Green Chemistry** (15 lectures, MSc in Chemistry Education, UoC, 2007 – to date)
46. **Bioinformatics** (10 lectures, Fourth year undergraduates, UoC, 2008 – to date)
47. **Advanced Computer Modelling** (12 lectures, Third year undergraduates, UoC, 2008 - todate)
48. **Molecular Spectroscopy CHEM4433 (24 lectures)** (Department of Chemistry, Sultan Qaboos University, Sultanate of Oman, Sep 2011) (Department of Chemistry, Sultan Qaboos University, Sultanate of Oman, Sep 2011)
49. **General Chemistry CHEM2102 (36 lectures)**
50. **Practical Course** (Second Year (**CHEM2102**) and Fourth Year Undergraduates (**CHEM4435**), Sultan Qaboos University, Sultanate of Oman, Sep 2011)
51. **Nanoelectronics (Final Year, 30 Lectures)**, Department of Electrical and Electronic Engineering, Kothalawala Defence University, Rathmalana, 2015.

1 lecture = 1 hour

HONOURS AND AWARDS IN SPORTS

Tennis (University of Colombo)

- Member of the Tennis team of University of Colombo in 1986,87,88,89,90,91 and 92 and awarded University colours in 1987,88,89,90,91 and 92.
- Captain of the Tennis team, University of Colombo, in 1992.
- Champion of the Fresher's Tennis Tournament, University of Colombo in 1986.
- Gold medals for Tennis in 1986 and 1992 at the third and fourth Inter-University Games.
- Participated in all island Inter-Club Tennis Championships in 1986,87,88,89 AND 90 and won the championship in 1987 (Div. IV) and 1988 (Div. III).
- Doubles Champion of the University Tennis Championships in 1987,90 and 91.
- Runner up in the University Singles Tennis Championship in 1990.
- Champions of the Inter-University Tennis Championships in 1986,90 (Captain),91 and 92.(Champions for four consecutive years)
- Champions of the Inter-Faculty Tennis Championships in 1990,91 and 92.
- Participated Tennis Tournaments in Maldives and Singapore in 1987 and 1991 respectively.

Table Tennis (University of Colombo)

- Member of the Table Tennis team of University of Colombo in 1986,90,91 and 92 and awarded University Colours in 1990,91 and 92.
- Captain of the Table Tennis team in 1991.
- Champion of the Freshers Table Tennis Tournament, University of Colombo in 1986.
- Gold medal for Table Tennis in 1986 at the third Inter-University Games and a Silver medal at the fourth Inter-University Games in 1992.
- Champions of the Inter-University Table Tennis Championships in 1986 and 1991 (Captain).
- Champions of the Inter-Faculty TT Tournament in 1986,90 and 92.
- Champion of the University Singles and Doubles TT Championships in 1990.
- Champion of the University Doubles TT Championship in 1990.
- Runner up in the University Doubles TT Championship in 1986.
- Runner up in the University Singles and Doubles TT Championship in 1992.

Cricket, Badminton and Football (University of Colombo)

- Member of the Cricket team, University of Colombo in 1987-1990. (Played as an opening medium fast bowler)
- Played all island Sri Lanka under 23 (Division I) Bristol Trophy Cricket Tournament in 1987.

- Member of the Faculty of Science Cricket team in 1986,90,91 and 1992.
- Finalist of the Doubles Badminton Tournament, University of Colombo in 1986. (Couldn't complete the event due to closure of the University)
- Member of the Faculty Football team in 1990 and 91.
- Member of the Faculty Swimming team in 1986.

**** All the Universities in Sri Lanka were closed due to unsettled political atmosphere during 1987-1990. I have sacrificed almost four years of education (except for a short time employment as a Management Trainee) during this period.**

SPORTS IN CAMBRIDGE, ENGLAND

- Member of the University of Cambridge Table Tennis Team (1st team) in 1994/95 season.
- Participated Cambridgeshire County (Division I), England, TT Championships in 1994/95.
- Captain of the Table Tennis team, Churchill College, Cambridge in 1995/96.
- Member of the Churchill College Cricket team in 1995 – 1997.
- Member of the Madingley Cricket Club (Division I, Cambridgeshire North), UK in 1995, 1996, 1997 and 1998. (played as an opening bowler and number 4 batsman)
- Won the best performance of the year award, Madingley CC, UK in 1995 and 1996 and 1998.
- Member of the Cricket team of the Department of Chemistry, University of Cambridge in 1995, 1996, 1997, 1998 (Captain) and 2003 (five matches).
- Won the man of the match award in the Inter-Departmental Finals, University of Cambridge in 1995 and 1998.
- Best Bowler, Madingley Cricket Club, Cambridge, UK in 1997.

PRESENT SPORTS ACTIVITIES:

- Presently Playing the National Interclub Tennis Tournament in Sri Lanka representing Dehiwala Cosmopolitan Club.
- Champions in 2013 (Division V), National Interclub Tennis Tournament in Sri Lanka
- Runners up in Division IV, in 2014 and 2015, National Interclub Tennis Tournament in Sri Lanka.
- Runners up in over 45, Interclub Tennis Tournament, 2015, in Sri Lanka.

Referees

1. Prof. Gehan Amaratunga
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4. Prof. A. Prasanna de Silva
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5. Dr. Jonathan Goodman
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6. Dr. Nick Bampos
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