

CURRICULUM VITAE
NIMAL SAVITRI KUMAR

Research Professor
Natural Product Division
Institute of Fundamental Studies (IFS)
Hantana Road, Kandy,
Sri Lanka

Tel: + 94 (081)-22232002
E-mail: nskumar3@gmail.com

CURRICULUM VITAE – NIMAL SAVITRI KUMAR

- NAME** : **Nimal Savitri Kumar (nee de Silva)**
- DATE OF BIRTH** : 03 January 1943
- SEX** : Female
- CIVIL STATUS** : Married
- ADDRESS** : 45/8 University Square, Dangolla, Kandy, Sri Lanka
(Tel. +94 81 2389939, 0777 576 304)
- OFFICE ADDRESS** : Natural Products Division, Institute of Fundamental Studies,
Hanatana, Kandy
Tel +94 (081) 2232002; Fax +94 (081) 2232131
- EDUCATION** : Birkbeck College, University of London (1967-1970)
University of Ceylon, Colombo, Sri Lanka (1961-1965)
Ladies' College, Colombo (1948-1960) (Head Prefect 1960)
- ACADEMIC DEGREES** : *Ph.D.* University of London (1971)
Title of Thesis: "The Chemistry of some substituted
hydrazones of methyl glycosiduloses".
Supervisor: Professor W.G Overend
B.Sc. Special Degree in Chemistry (1965)
Second Class (Upper Division) Honours, University of Ceylon
- EMPLOYMENT RECORD:**
Research Professor, Institute of Fundamental Studies, Kandy
(August 2009 – to date); *Emeritus Professor*, Department of
Chemistry, University of Peradeniya (June 2009); *Senior
Professor* (1996 – Sept. 30 2008, retired); *Head, Department
of Chemistry*, June 2001 – August 2004 *Professor*, (1991-
1996) and *Associate Professor* (1982- 1991) in Organic
Chemistry, University of Peradeniya, *Senior Lecturer*,
University of Sri Lanka, Peradeniya Campus (1977-1982),
Lecturer, University of Sri Lanka, Peradeniya Campus (1971-
1977) and *Probationary Assistant Lecturer* in Chemistry,
University of Ceylon, Colombo Campus (1965-1970).
- PROFESSIONAL ORGANIZATIONS** : *Member*, Institute of Chemistry, Ceylon;
Member, Sri Lanka Association for the Advancement of
Science;
Member, American Society of Pharmacognosy;
Member, Asia-Pacific Society of Chemical Ecology.

ACADEMIC DISTINCTIONS

1. 2007 Sept.-Oct. Invited Visitor, Rockefeller Foundation, Bellagio Center, Milan, Italy
2. 2006 Feb-June Visiting Professor, University of South Pacific, Suva, Fiji
3. 2005 National Science Foundation Research Fellowship
4. 1999. Presidential award for Research 1999
5. 1998. Visiting Scientist, IACR, Rothamstead Experimental Station, U.K.
6. 1994 Institute of Chemistry Gold Medal
7. 1991. Elected Fellow of the National Academy of Sciences
8. 1985/86. Research Fellowship from the International Seminar in Chemistry, Uppsala University, Sweden
9. 1986. Research Fellowship, Prof. GGS Dutton, University of British Columbia, Vancouver, Canada
10. 1985. Sri Lanka Presidents Award for Scientific Achievements (Joint Awardee)
11. 1977-1978. Postdoctoral Research Fellowship, Prof. GO Aspinall, York University, Ontario, Canada
12. 1977. Royal Society Commonwealth Bursary, U. K.

GRANTS

RESEARCH GRANTS

a) National

- i. 2007. University of Peradeniya Research grant **RG/2007/42/S** Rs. 180,000;
Title “*Separation of proanthocyanidins from healthy and blister blight infected tea (Camellia sinensis) leaves using high –speed countercurrent chromatography*”.
- ii. 2005. Postdoctoral Research Fellowship from the National Science Foundation of Sri Lanka NSF/Fellow/2005/02 Rs. 1,916,000
Title; “*Role of some phytochemicals (neutral sugars, caffeine and flavanoids) on Shot-hole borer infestation of tea*”.
- iii. 2005 National Research Council Grant, **NRC 05-55** Rs 1, 859470 “Tea polyphenols for clinical application: Activity against antibiotic resistant bacteria and human fungal pathogens” .
- iv. 1985 “Organic and aqueous extractives of some medicinal plants of Sri Lanka”. Grant from Natural Resources, Energy and Science Authority (NARESA) of Sri Lanka.
- v. 1984 “Chemical investigation of the mucilaginous constituents in some plants used in traditional medicine”. Grant from National Science Council (NSC) of Sri Lanka

- vi. 1982 “Chemical studies on the seaweeds of Sri Lanka”. Grant from National Science Council (NSC) of Sri Lanka
- vii. 1981 “Chemical investigation of the Sri Lankan Celastraceae” Grant from National Science Council (NSC) of Sri Lanka.
- viii. 1977. “Chemical studies on the seaweeds of Sri Lanka”. Grant from National Science Council (NSC) of Sri Lanka
- ix. 1974 “Investigation on the utilization of factory waste from the passion fruit and lime fruit industry”. Grant from National Science Council (NSC) of Sri Lanka.

b) International

- i. **2003-2005** Joint research grant under the Asian- Swedish Research Partnership programme Sri Lankan component SEK 84,500 + 113,000+ 110,000 (Total approx. USD 42,000)
- ii. **1994- 2003** Co-grantee Biochemical Pest Control Project, Sida Bilateral Cooperation with Sri Lanka
Major equipment (>US\$ 10,000) purchased for University from grant:
High Performance Liquid Chromatography (HPLC) Equipment US\$ 60,000
Nuclear Magnetic Resonance (NMR) Spectrometer US\$ 220,000
Gas Chromatography-Mass Spectrometer (GC-MS) US\$ 111, 000
Centrifugal Countercurrent Equipment (CCC) US\$ 25,000
Freeze Dryers US\$ 30,000
Gas Chromatographs US\$ 28,000
- iii **1992- 2002** Co-grantee Sweden “*Bioactive Compounds in the Control of Plant Diseases*”. International Program in Chemical Sciences, Uppsala University, US\$ 240,000”
- iv **1981 – 1991** International Seminar in Chemistry – “*Carbohydrate chemistry project*” US\$ 130,000
Purchase of equipment and training of postgraduate students at Swedish Universities, collaborative research projects at the University of Stockholm and Uppsalal University, Sweden
Horizon Colorimeter, FRAC -100 Collector, Equipment for Gel chromatography
- v **1989.** Third World Academy of Science, Trieste, Italy. RG/BC/88-65 US\$ 2000.00
“*Studies of some microbial polysaccharides* “
- v. **1988** International Foundation for Science Stockholm. F/0255-3 Jan. 1988
SEK (Swedish Kroner) 58,030.00
“*Chemical investigation of the marine algae of Sri Lanka*”

- vi **1983** International Foundation for Science Stockholm. G 255 Jan. 1983
 US\$ 8,500.00
 “*Chemical investigation of the marine algae of Sri Lanka*”
- a. **1978** International Foundation for Science Stockholm. G-255-3 1978
 US\$ 10,000.00
 “*Chemical investigation of the marine algae of Sri Lanka*”
 Equipment purchased from v-vii Automatic Polarimeter M 241 Perkin-Elmer.
 US\$ 10,000
 50 MHz Dual Channel Oscilloscope (Philips)

Travel Grants

2008. Travel grant from the Swedish Consultancy Services Fund through the Department of External Resources. Travel grant (Rs. 188,857.00) return air fare to Rio de Janeiro, Brazil to attend the *Fifth International Conference on Countercurrent Chromatography – CCC2008*.
- 2008 Grant from the National Science Foundation Sri Lanka Grant (Rs 150,000/-) to cover registration fee and subsistence to attend the *Fifth International Conference on Countercurrent Chromatography – CCC2008*.
- 2005 NSRC, SAREC – Travel grant to participate in *Research Review Meeting of the NSRC-SAREC project at Uppsala Sweden*.
- 2003 Sida, SAREC – Travel grant to participate in *Asian -Swedish Joint Partnership Research Planning meeting. Research planning meeting at University of Uppsala, Sweden*
- 2001 Sida, SAREC – Travel grant to participate in PSE Conference on Lead Compounds from Higher Plants, Laussane, Switzerland
- 1999 Sida, SAREC – Travel grant to participate in *First Asia Pacific Conference on Chemical Ecology, Shanghai, China. Sept 1999*
- 1997 Sida, SAREC – Travel grant to participate in PSE Conference on Communication of Plants with the Environment, Noordwijkerhout, The Netherlands
- 1996 Sida, SAREC – Travel grant to participate in planning meeting SAREC project at Royal Institute of Technology, Stockholm, University of Uppsala and Novum Research Centre, Karolinska Building, Sweden
- 1995 Waters, Austria. – Travel grant to participate in HPLC Training programme in Vienna , Austria
- 1995 Sida, SAREC – Travel grant to participate in Grant Research discussions in Stockholm and Uppsala, Sweden
- 1994 International Programme in Chemical Sciences (IPICS) – Travel grant to participate in ASOMPS VIII Melacca, Malaysia
- 1992 IPICS – Travel grant to participate in ASOMPS VII Manila, Philippines

- 1990 IPICS – Travel grant to participate in IUPAC Natural Products New Delhi
- 1989 IPICS – Travel grant to participate in ASOMPS VI Bandung Indonesia
- 1988 IPICS – Travel grant to participate in XIVth International Carbohydrate Conference Stockholm, Sweden
- 1987 IPICS – Travel grant to participate in Princess Congress, Bangkok, Thailand
- 1986 IPICS, Sweden– Travel grant to participate in XIIIth International Carbohydrate conference, Cornell, Ithaca, USA
- 1984 IFS, Sweden – Travel grant to participate in ASOMPS V Seoul, Korea
- 1980 International Seminar, Sweden – Travel grant to participate in ASOMPS III, Bangkok, Thailand

RESEARCH PUBLICATIONS IN SCHOLARLY JOURNALS

1. Effect of caffeine and a tea flavanoid on *Monacrosporium ambrosium*, ectosymbiote of shot-hole borer beetle of tea”. N.S. Kumar N. B. Jayaratne and D.N. Karunaratne (2009), *J. Natl. Sci. Foundation Sri Lanka*, **17** (4) 273-275
2. Separation of proanthocyanidins from tea leaves using High-speed counter-current chromatography. N. S. Kumar, W.M.A. M. B. Wijekoon, V. Kumar, N. Punyasiri and S. Abeysinghe. (2009), *J. Chromatogr. A*, **1216**, 4295-4302
3. Response of the shot-hole borer of tea, *Xyleborus fornicatus* (Coleoptera:Scolytidae) to cospeciifics and plant semiochemicals, W.S. Karunaratne, V. Kumar, J. Pettersson and N.S. Kumar (2008) *Acta Agriculturae Scandinavica*, B, **58**, 345-351.
4. Sustainable plant protection for increased food security in a changing climate, R. Glinwood, M. Birkett, N. S. Kumar P. Bandara, V. Ninkovic and J. Pettersson (2008) *Currents*, **44/45**, 29-33.
5. The effect of common lichen compounds on shot-hole borer of tea (*Xyleborus fornicatus* Eichhoff), K. Sahib, N. S. Kumar and V. Karunaratne, (2008) *J. National Science Foundation of Sri Lanka*. **36**(4) 335-336
6. Infestation of tea by the Shot-hole borer, *Xyleborus fornicatus* Eichch. (Coleoptera: Scolytidae): Ovicidal effect of caffeine. W. S. Karunaratne, V. Kumar, N. S. Kumar and N. K Weerasekera (2008) *Science and Culture* **74**, 59-64
7. Separation of catechin constituents from five tea cultivars using High Speed Countercurrent Chromatography. N. S. Kumar and M. Rajapaksha, (2005) *J. Chromatogr., A*, **1083**, 223-228.
8. Structural Analysis of a Xylan from Tea stems and Xylanase activity of the *Ambrosia* fungus. N.K. Banadaranayake, T. Bombuwala, N.S. Kumar and K.M.S. Wimalasiri, (2002). *Ceylon J. Science : Physical Science* **9**(1) 110-115
9. Effect of caffeine on shot-hole borer beetle (*Xyleborus fornicatus*) of tea (*Camellia sinensis*). P. Hewavitharanage, S. Karunaratne and N.S. Kumar (1999) *Phytochemistry* **51** (1) 35-41

10. Histology and Fungal Flora of Shot-hole borer beetle (*Xyleborus fornicatus*) galleries in tea (*Camellia sinensis*). N. S. Kumar, P. Hewavitharanage and N.K.B. Adikaram, (1998). *J. Natl. Sci. Council of Sri Lanka* **26** (3) 195- 207
11. A Convenient Synthesis of 8,9- Dihydro-9-(Toluene-*p*-Thio)- Carvone: A Useful Synthone in Natural Product Synthesis, V. Karunaratne, A.A.L. Gunatilaka, V.P Sandanayake, G. P. Wannigama, S. Pathirana, N. S. Kumar, R. Dharmaratne and S. Sotheeswaran,. (1998), *Cey. J. Science (Physical Sciences)*, **5** (1), 1-5.
12. Selective cleavage of welan gum (S-130) by oxidative decarboxylation with lead tetraacetate. N. S. Kumar, R.M.S.K. Ratnayake, G. Widmalm and P. E. Jansson, (1996) *Carbohydrate Research*, **291** 109-114.
13. Attack on tea by *Xyleborus fornicatus*: Inhibition of the Symbiote *Monocrasporium ambrosium* by Caffeine. N. S. Kumar, P. Hewavitharanage and N.K.B. Adikaram (1995) *Phytochemistry*, **40** (No.4), 1113-1116.
14. A Water-soluble polysaccharide from the leaves of *Litsea gardneri* (Lauraceae). K. M. S, Wimalasiri and N. S. Kumar (1995) *Carbohydrate Polymers*, **26**, 19-23.
15. Convenient Synthesis of Iso-acronycine and some other new Acridone derivatives. J. Reisch, H. M. T. B. Herath and N. S. Kumar (1991) *Liebigs Ann. Chemie*, 686-689
16. Synthesis of *rac*-Acridone-Coumarin Dimers (Acrimarins). J. Reisch, H. M. T. B. Herath and N. S. Kumar (1991) *Liebigs Ann. Chemie*, 839-841.
17. Synthesis of the Natural Coumarins E-Suberenol, Cyclosuberodiene and two other new related coumarins. J. Reisch, H. M. T. B. Herath and N. S. Kumar (1990) *Liebigs Ann. Chemie*, 931-933
18. Synthesis of some new Acridones, J. Reisch, H. M. T. B. Herath and N. S. Kumar (1990) *Liebigs Ann. Chemie* 1047-1049.
19. Constituents of the stem bark from *Butea monosperma*. B. M. R. Bandara, N. S. Kumar and K. M. S. Wimalasiri, (1990) *J. Natl. Sci. Council Sri Lanka*. **18**, 97-103.
20. Structural Studies of an arabinoxylan isolated from *Litsea glutinosa* (Lauraceae). (1990) H. M. T. B. Herath, N. S. Kumar and K. M. S. Wimalasiri, *Carbohydr. Res.* **198**, 343-351.
21. Composition and sequence of uronate residues in alginates from three species of brown seaweeds. S. S. M. de Silva and N. S. Kumar, (1989) *Carbohydr. Res.* **191**, 167-173.
22. Carbohydrate constituents from the Marine algae of Sri Lanka. Part III. Composition of the carbohydrate extracted from the brown sea weed *Turbinaria conoides*. S. S. M. de Silva and N. S. Kumar (1988) *J. Natl. Sci. Council Sri Lanka*. **16**, 201-208.
23. An antifungal constituent from the stem bark of *Butea monosperma*. B. M. R. Bandara, N. S. Kumar and K. M. S. S. Wimalasiri, (1989) *J. Ethnopharm.* **25**, 73-75.
24. Antimicrobial activity of some marine algae of Sri Lanka, B. M. R. Bandara, A. A. L. Gunathilaka, N. S. Kumar, N. K. B. Adikaram and S. Balasubramaniam, (1988) *J. Natl. Sci. Council Sri Lanka*, **7**.
25. Structural Studies of the Capsular Polysaccharide from *Streptococcus pneumoniae* Type 18A. P. E. Jansson, N. S. Kumar, B. Lindberg and G. Widmalm. (1988) *Carbohydr. Res.* **173**, 227.
26. Composition of the water soluble polysaccharide from *Cyclea burmannii*. (1988) S. S. M. de Silva and N. S. Kumar. *Carbohydr. Polymers*, **9**, 49.
27. Arylalkanones from *Myristica dactyloides*. H. M. T. B. Herath, V. Karunaratne and N. S. Kumar (1988) *Phytochemistry*, **27**, 465-468.

28. Structural studies of a Polysaccharide, S-88, elaborated by *Pseudomonas* ATCC 31554. P. E. Jansson, N. S. Kumar and B. Lindberg, (1986) *Carbohydr. Res.* **156**, 165.
29. Structural studies of an arabinoxylan from *Neolitsea cassia*. S. S. M. de Silva, N. S. Kumar and Per Aman, (1986) *Carbohydr. Res.* **152**, 229.
30. Triterpenes from *Euonymus revolutus* (Celastraceae). N. S. Kumar, P. M. Muthukuda and S. Balasubramaniam, (1985) *Phytochemistry*, **24**, 2484.
31. New D:A-friedooleanans from *Euonymus revolutus*(Celastraceae) (1985) N. S. Kumar, P. M. Muthukuda and J. K. MacLeod. *J. Chem. Soc. Perkin Trans. 1*, 685.
32. A new lupene diol from *Euonymus revolutus* (Celastraceae) (1985) N. S. Kumar, P. M. Muthukuda and M. I. M. Wazeer, *Phytochemistry*, **24**, 1337.
33. Carbohydrate constituents to the marine algae of Sri Lanka. Part II. Composition and sequence of uronate residues in alginates from some brown seaweeds. (1984) S. S. M. de Silva and N. S. Kumar, *J. Natl. Sci. Council Sri Lanka*, **12**, 161.
34. Modified Curtius rearrangement in the selective cleavage of glucosiduronic acid and glycosiduron-amide linkages. G. O. Aspinall, H. K. Fanous, N. S. Kumar and V. Puvansarajah, (1983) *Can. J. Chem.* **61**, 1858.
35. Triterpenes from the leaves of *Pleurostyliya opposita* (Celastraceae), A. P. Dantanarayana, N. S. Kumar, P. M. Muthukuda and S. Balasubramaniam, (1983) *Phytochemistry*, **22**, 473.
36. A lupane derivative and the ¹³C-NMR chemical shifts for some lupanols from *Pleurostyliya opposita*. A. P. Dantanarayana, N. S. Kumar, P. M. Muthukuda and M. I. M. Wazeer, (1982) *Phytochemistry*, **21**, 2065.
37. Anti-bacterial activity of extracts from the brown seaweed *Stoecheospermum marginatum* (Dictyotaceae). S. S. M. de Silva, S. K.T. Gamage, N. S. Kumar and S. Balasubramaniam (1982) *Phytochemistry*, **21**, (No. 4), 944.
38. Structures of four new oxygenated lupanes from *Pelurostyliya opposita* (Celastraceae), A. P. Dantanarayana, N. S. Kumar, M. U. S. Sultanbawa and S. Balasubramaniam, (1981) *J. Chem. Soc. Perkin Trans. 1*, 2717.
39. Carbohydrate constituents of the marine alga of Sri Lanka. Part I. Some physiochemical properties of phycocolloids from eight species of red algae. (1981) A. P. Dantanarayana, N. S. Kumar and V. Puvanesarajah, *J. Natl. Sci. Council Sri Lanka*, **9**, 9.
40. The selective cleavage of permethylated glucopyranosiduronic acid linkages by oxidative carboxylation with lead tetraacetate. G. O. Aspinall, H. K. Fanous, N. S. Kumar and V. Puvanesarajah, (1981) *Can. J. Chem.* **59**, 935.
41. Chemical investigation of Ceylonese Plants. Part 35. Three hydroxyellagic acid methyl ethers, chrysophanol and scopoletin from *Shorea worthingtonii* and *Vatica obscura*. Y. A. G. P. Gunawardena, N. S. Kumar and M. U. S. Sultanbawa (1979) *Phytochemistry*, **18**,1017.
42. Chemical investigation of Ceylonese Plants. Part 24. New chromenoflavonoids from the bark of *Artocarpus bobilis*. Thw . (Moraceae). G. Pavanadasivam, M. U. S. Sultanbawa, N. S. Kumar and R. Mageswaran, (1977) *J. Chem. Soc. Perkin Trans. 1*, 1243.

Papers from research leading to Ph.D. degree

43. Arylazoglycosides. Part III. Conversion of methyl 4,6-*O*-benzylidene-3-deoxy- α -D-erythro-exo-pyranosidulose into 4,6-*O*-benzylidene-3-deoxy-D-erythro-hexosulose-2-

- phenylhydrazone. (1972) P.M. Collins, N. S. Kumar and W. G. Overend, *Carbohydrate Res.* **22**, 187.
44. Aryloglycosides. Part II. Addition of dienes and dimethyl sulphoxonium methylide to 2- and 3- arylazo derivatives of methyl 4,6-*O*-benzylidene-2,3-dideoxy-**D**-hex-2-enopyranosides. (1972), P. M. Collins, D. Gardiner, N. S. Kumar and W. G. Overend, *J. Chem. Soc. Perkin Trans.* **1**, 2611.
45. Aryloglycosides. Part I. Synthesis and reactions of 2-and 3-arylo derivatives of methyl 4,6-*O*-benzylidene-2,3-dideoxy-**D**-hex-2-no-pyranosides. P.M. Collins, D. Gardiner, N. S. Kumar and W. G. Overend (1972) *J. Chem. Soc. Perkin Trans.* **1**, 2596.
46. 1,2- and 1,4- Additions to methyl 2- and 3-phenylazoglycopyrano-2-enosides. P. M. Collins, D. Gardiner, N. S. Kumar and W. G. Overend (1970) *Chem. Commun.* 1433.

PUBLISHED ABSTRACTS AND PROCEEDINGS OF CONFERENCES ETC.

A) PRESENTATIONS AT INTERNATIONAL SYMPOSIA (21)

1. High-speed Counter-current Chromatography for separation and isolation of tea flavanoids (2008), N. S. Kumar. Invited Lecture. *Abstr. 8th Asian Symp. Medicinal Plants, Spices and other Natural Products (ASOMPS XIII)* November 3-6 2008. Hyderabad, India. *IL* **35**, 71
2. Separation and Structures of Proanthocyanidins from fresh tea (*Camellia sinensis*) leaves (2008) N. S. Kumar Invited lecture . *Abstr. 11th International Symposium on Natural Product Chemistry*". October 29-November 1 2008. Karachi, Pakistan, 18
3. Separation of proanthocyanidins from tea leaves using High-speed Counter-current Chromatography (2008) W.M.A. M. B. Wijekoon, N. S. Kumar, V. Kumar, N. Punyasiri and S. Abeysinghe. *5th Intl. Conf. Countercurrent Chromatography*. July 24-29 2008. Rio de Janeiro, Brazil. OR-15. p 29
4. Separation of theaflavins from black tea using HSCCC (2006) N. S. Kumar V. Kumar and W. M.A.M.B. Wijekoon. *4th Intl. Conf. Countercurrent Chromatography*. August 8-11 2006. Bethesda, Maryland, USA. O-52, p 61
5. Insecticidal Activity of *Curcuma zedoaria* (2001). N. S. Kumar, V. Kumar and K. A. N. P. Bandara, *Intl. Symp. Phytochem. Soc. Europe - Lead Compounds from Higher Plants*, Sept. 12-14, 2001, Lausanne, Switzerland, Abstr. P 093
6. Biochemical Interactions in Shot-Hole borer Infestation of Tea (2000) N. S. Kumar, *Tenth Asian Symposium on Medicinal Plants and other Natural Products*. Dhaka, Bangladesh, 18-23 Nov. 2000, Abstr. *IL* **25**, p. 42
7. Shot-hole borer infestation and Chitinase activity in stems of tea clones TRI2023 and TRI2025 (1999), T.P. Bombuwala and N.S. Kumar. *1st Asia Pacific Conf. Chem. Ecol.*, Nov. 1-4 1999 Shanghai, China. Abstr. D-11, p 85
8. Ovicidal activity of caffeine on *Xyleborus fornicatus* (1999) W. S. Karunaratne, S. Kularatne, N.S. Kumar, V. Kumar and N.K. Weerasekera. *1st Asia Pacific Conf. Chem. Ecol.*, Nov. 1-4 1999 Shanghai, China. Abstract No. D-12, p 86
9. Caffeine in Shot-hole borer infestation of tea (1998) N. S. Kumar, P. Hewavitharanage and S. Karunaratne. *9th Intl. Congr. Pesticide Chem. The Food and Environment Challenge*. August 1998, London, UK. Abstr. 3A-036

10. Biochemical Interactions in shot-hole borer attack on tea (1997) N. S. Kumar, T. Bombuwela and P. Hewavitharanage. *Communications of plants with the Environment*. Int. meeting of the *Phytochem. Soc. North America* and *Phytochem. Soc. Europe*. Noordwijkerhout, The Netherlands, 20-23 April 1997. Abstr. P.21.
11. Role of caffeine in the resistance of tea clones to the Shot-Hole Borer, *Xyleborus fornicatus* (1995) N. K. B. Adikaram, N. S. Kumar, V. Kumar and P. Hewavitharanage, *Intl. Soc. Chem. Ecol.*, 12th Ann. Meeting, University of Chile, Santiago, Chile, 1995, 85.
12. Effect of caffeine on the growth of Ambrosia fungus (1994) *Monacrosporium ambrosium*. S. Kumar and P. Hewavitharanage. 8th *Asian Symp. Medicinal Plants and other Natural Products (ASOMPS VIII)*, Melaka, Malaysia, 12-16 June 1994, Abstract No. P21
13. Antimicrobial activity of some marine algae of Sri Lanka (1992) B.M.R. Bandara, A.A.L. Gunatilaka, N.S. Kumar, W.R. Wimalasiri, N.K. Adikaram and S. Balasubramaniam, 1st *Asia-Pacific Conf. Algal Biotechnology "Opportunities for the Third World"* University of Malaysia, Malaysia.
14. Synthesis of some Coumarin derivatives (1992) H.M.T.B. Herath and N. S. Kumar 7th *Asian Symp. Medicinal Plants and Spices (ASOMPS VII)*, Philippines 2-7 Feb 1992 Abstr. WO25.
15. Stem bark constituents from *Butea monosperma* (1990) B. M. R. Bandara, N. S. Kumar and K.M.S. Wimalasiri, 17th *IUPAC Intl. Symp. Chem. Nat. Prod.*, New Delhi, 4-9 February 1990, p.314
16. Xylans from some medicinally useful plants of the Lauraceae (1989) N. S. Kumar, S. S. M. de Silva, H.M.T. B. Herath, S. Kalpage, S. Subrammaniam and K. M. S. Wimalasiri, 6th *Asian Symp. Medicinal Plants and Spices (ASOMPS VI)*. Bandung, Indonesia. 20-24 January 1989. Abstr. P3-6
17. Arylalkanones from *Myristica dactyloides* (1987), H.M.T.B. Herath, V. Karunaratne and N. S. Kumar, *Princess Congress I*, Bangkok, Thailand, 10-13 December 1987, Abstr. CC17, 228
18. Structural Studies of an arabinoxylan isolated from *Litsea glutinosa* (Lauraceae) (1986) H.M.T.B. Herath and N. S. Kumar, *XIVth International Carbohydrate Symposium*, Stockholm Sweden, 10-15 August 1986, Abstr. A21, 42
19. Structural Studies of a Polysaccharides S-88 elaborated by *Pseudomonas* ATCC 31544 (1986) P.E.Jansson, N.S.Kumar and B.Lindberg, *XIIIth Intl. Carbohydr. Symp.*, Ithaca, New York. 10-15 August 1986, 212
20. Four new pentacyclic triterpenes from *Euonymus revolutus* (Celastraceae) (1984) N. S. Kumar and P.M. Muthukuda, 5th *Asian Symp. Medicinal Plants and Spices (ASOMPS V)*, Seoul, S. Korea, 171
21. "Mono- di-and tri-oxygenated Iupanes from *Pleurostyliia opposita* (Wall) Alston (Family Celastraceae) (1980) A.P. Dantanarayana, N.S. Kumar and M.U.S. Sultanbawa, 4th *Asian Symp. Medicinal Plants and Spices (ASOMPS IV)*, Bangkok, Thailand 15-19 September (1980), p.129

b) PRESENTATIONS AT NATIONAL CONFERENCES SYMPOSIA/SEMINARS ETC (66)

1. Identification of proanthocyanidins isolated from tea leaves. (2008). *Proc. Peradeniya University Research Session (PURSE) WMAMB Wijekoon, NS Kumar and PAN Punyasiri.* 323-325
2. Screening of proanthocyanidins from tea leaves for antibacterial activity against selected human pathogen. SK Hettihewa, NS Kumar, BMR Bandara and GJ Panagoda. (2008) *Proc. Peradeniya University Research Session (PURSE)* 335-336
3. Effect of caffeine and epigallocatechingallate (EGCG) on sporulation, spore germination and mycelial growth of *Monacrosporium ambrosium*, ectosymbiote of the shot-hole borer beetle of tea. (2007) N.B. Jayarane, D.N. Karunaratne and N.S. Kumar. *Proc. Peradeniya University Research Session (PURSE) Part 1.* **12** 51-52
4. Antibacterial activity of Oxacillin against Methicillin resistant *Staphylococcus aureus* (MRSA) pre-incubated with tea catechins (2007). W. W. Kumbukgolla, V. Thevanesam, N. S. Kumar and B. M. R. Bandara *Peradeniya University Research Session (PURSE) Part 1.* **12** 82-83
5. Screening for antibiotic activity of Tea catechins against *Pseudomonas aeruginosa* and Enterococci. (2007) A. A. K. Karunathilake, W.W. Kumbukgolla, EWMA Ekanayake, V. Thevanesam, N.S. Kumar and B.M. R. Bandara *Peradeniya University Research Session (PURSE) Part 1.* **12** 89-91
6. High-speed counter-current chromatography for the isolation of proanthocyanidins from tea flush (2007). W.M.A.M.B. Wijekoon, N.S. Kumar and P.A.N. Punyasiri *Peradeniya University Research Session (PURSE) Part II.* **12** 292-293
7. "Separation of tea flavanoids using high-speed countercurrent chromatography". (2007) *CHEMTECH 2007, Inst. Chem. Ceylon, Colombo*
8. "Antibacterial susceptibility testing of catechin fraction of tea flush (Cultivar 2025) against methicillin resistant *Staphylococcus aureus*." W. W. Kumbukgolla, B. M. R. Bandara, N. S. Kumar, E. W. M. A. Ekanayake and V. Thevanesam . (2006) p. 184 *Peradeniya University Research Sessions PURSE 2006*
9. "Effect of Caffeine and Epigallocatechin gallate (EGCG) on *Monacrosporium ambrosium*, symbiote of the Shot-hole borer beetle of tea." N. B. Jayaratne, D.N. Karunaratne and N .S. Kumar (2006) p. 186 *Peradeniya University Research Sessions PURSE 2006*
10. "Isolation of theaflavins from Sri Lankan black tea and the antioxidant activity of made Sri Lankan tea." W.M.A.M.B. Wijekoon and N. S. Kumar (2006). p 22 *10th Anniversary Celebrations of the PGIS 1996-2006*
11. "Antibacterial activity of Tea extracts/Compounds against strains of Methicillin resistant *Staphylococcus aureus* (MRSA)". Kumbukgolla, W.W., Bandara, B.M.R., Kumar, N.S., Manikarachchi, M.A.L.C., Thevanesam, and Ekanayake, E. W. M. A. p 15 *10th Anniversary Celebrations of the PGIS 1996-2006*
12. "Separation and Characterisation of theaflavins from black tea using HSCCC". N.S. Kumar, V. Kumar, N. Punysairir, S. Wickremasinghe and W.M.A.M.B. Wijekoon. (2006) p. 185 *Peradeniya University Research Sessions PURSE 2006.*
13. Olfactometry studies on the Shot-hole borer of Tea, *Xyleborus fornicatus* (2005) *Proc. Sri Lanka Assoc. Adv. Sci.* **61**,

14. Changes in Caffeine content of stems from two tea cultivars on *Xyleborus fornicatus* infestation. W. Subodhi Karunaratne, Vijaya Kumar and N.Savitri Kumar (2005) *Peradeniya University Research Sessions PURSE* p.144
15. Biochemical Interactions in Shot-hole borer infestation of tea. N. Savitri Kumar (2004) *AFASSA Regional Symposium on Natural Products*, Barigama, Sri Lanka. p 35
16. Separation of catechins from fresh tea leaves using HSCCC, their purity and indentification. N. Savitri Kumar, Vijaya Kuma and Maheshinie Rajapaksha, *AFASSA Regional Symposium on Natural Products*, Barigama, Sri Lanka. p 43
17. Separation and Isolation of caaaatechin constituents from five tea (*Camellia sinensis* var. assamic) cultivars using high-speed counter-current chromatography. N. Savitri Kumar and Maheshinie Rajapaksha. *International Symposium on Herbal Medicine, Phytopharmaceuticals and other Natural Products*. NASTEC, Colombo. B-22 p 57.
18. Effect of Tea catechins on *Monacrosporium ambrosium* (2004) *Proc. Peradeniya University Research Sessions PURSE* N.S Kumar and Maheshinie Rajapaksha. p.117
19. Chitinase Activity in Tea Stems (2000) T. P. Bombuwala and N. S. Kumar, *Inst. Chem. Cey. 29th Ann. Sess., Chemistry in Sri Lanka*, 17, 41.
20. Effect of caffeine on the oviposition of *Xyleborus fornicatu*,(1999) S. Karunaratne, S Kularatne, N. S. Kumar, V. Kumar and N. Weerasekara, *Proc. Sri Lanka. Assoc. Advmt. Sci.*, **55**, 152
21. Chitinase activity in stems of tea clones TRI 2023 and TRI 2025 (1999) T. P. Bombuwala and NS Kumar, *Proc. Sri Lanka Assoc. Adv. Sci.*, **55**, 238
22. A xylan from pencil thick tea stems of the tea clones TRI2023 and TRI2025 (1997) N. K. Bandaranayake, N. S. Kumar and K. M. S. Wimalasiri, *Inst. Chem. Ceyl. Ann. Sessions*, Chemistry in Sri Lanka, **14**, 15.
23. Effect of caffeine on the development of *Xyleborus fornicatus* (shot-hole borer beetle) (1995) *Proc. Sri Lanka Assoc. Adv Sci.* **51**, 282
24. Carbohydrate constituents of tea stems and their effect on sporulation and spore germination of *Monacrosporium ambrosium*. NKB Adikaram, NS Kumar and RMTP Bombuwala (1995) *Proc. Sri Lanka Assoc. Adv Sci.* **51**, 177
25. Polysaccharides from Plant and Microbial Sources (1994), Institute of Chemistry Gold Medal lecture, Chemistry in Sri Lanka, **11**, 20-27.
26. An antifungal compound from *Camellia sinensis*. (1993) JMSB Jayasinghe, N. S. Kumar, P.G.P. Tilakarathne and NMB Adikaram *Proc. Sri Lanka Assoc. Adv. Sci.* **49**, 221
27. Preliminary chemical investigation of polysaccharide fraction from bark of *Aegle marmelos* (Rutaceae) (1993). H.M.M. J. Gunarathne, N.S. Kumar, S. K. Pathirane and K.M.S. Wimalasiri *Proc. Sri Lanka Assoc. Adv. Sci.* **49**, 225
28. An alkali soluble polysaccharide from *Aegle marmelos*. N.S. Kumar and S. Pathirane (1992) *Proc. Sri Lanka Assoc. Adv. Sci.* **48**, 123
29. An extracellular polysaccharide from *Collectotrichum capsicii*. (1992) N.S. Kumar, R.M.S.K. Ratnayake and NKB Adikaram, *Proc. Sri Lanka Assoc. Adv. Sci.* **48**,123.
30. Structural Features of the Water Soluble Polysaccharide Extracted from Leaves of *Litsea gardneri* (1991) Fifty Years of Chemistry in Sri Lanka – Fifty Years of University Education - Golden Jubilee Symposium on Natural Products Chemistry, May 20-23, 1991, Peradeniya, Sri Lanka

31. The oxidative cleavage of acetylated S-130 the extracellular polysaccharide elaborated by *Alcaligenes ATCCC 31555* using lead tetraacetate (1990), N. S. Kumar, R.M.S.K. Ratnayake and B. Lindberg, *Proc. Sri Lanka Assoc. Adv Sci.* **46**, 151
32. Composition of the polysaccharide fractions isolated from the fruits of *Pedaliium murex* (Pedaliaceae) (1988) N. S. Kumar. K.M.S.S. Wimalasiri and B.M.R. Bandara *Proc. Sri Lanka Assoc. Adv Sci.* **44**, 194
33. Constituents of the stem bark from *Butea monosperma* (Leguminosae). (1988) B.M.R. Bandara, N.S. Kumar and K.M.S.S. Wimalasiri *Proc. Sri Lanka Assoc. Adv Sci* **44**, 172
34. The water soluble polysaccharide isolated from *Litsea glutinosa* (Lauraceae) (1988) H.M.T.B. Herath and N. S. Kumar, *Proc. Sri Lanka Assoc. Adv. Sci.* **44**, 193
35. Composition of the polysaccharides produced by *Colletotrichum capsici* and *C. gloeosporioides* (1988) S.W. Kalpage, N.S. Kumar, R.M.S.K. Ratnayake, K.M.S.S. Wimalasiri and N.K.B Adikaram *Proc. Sri Lanka Assoc. Adv Sci* **44**, 195
36. Preliminary analysis of the sugar constituents of the capsular polysaccharide from *Escherichia coli* serotype K 45 (1987) GGS Dutton, DN Karunaratne, NS Kumar, PAJ Perera and UAR Wickremasinghe *Proc. Sri Lanka Assoc. Adv Sci* **43** 238
37. (-)-Medicarpin from *Butea monosperma*. B.M.R. Bandara, N.S. Kumar and K.M.S. Samaranayake (1987) *Proc. Ann Sess. Inst. Chem. Ceyl.*, **16**, 7
38. Structure of an Araboxylan isolated from *Neolitsea cassia* (1985). S.S.M. de Silva, N.S. Kumar and P. Aman, *Proc. Sri Lanka Assoc. Adv. Sci*, **41**, 89
39. Acetoxylation of methyl-3-oxocanophyllate (1984) N.S. Kumar and P.M. Muthukuda. *Proc. Sri Lanka Assoc. Adv. Sci* **40**, 74
40. Polysaccharide constituents from the leaf mucilage of *Neolisea cassia* (Lauraceae) (1984) S.S.M. de Silva and N.S. Kumar *Proc. Sri Lanka Assoc. Adv. Sci* **40** 77
41. Effect of Alkali Treatment on the Agar from *Gracilaria corticata* (1983) S.S.M. de Silva, N.S. Kumar and R.M.G. Rajapakse, *Proc. Sri Lanka Assoc. Adv. Sci.* **39** 87
42. Two new friedelene α -hydroxy ketones from *Euonymus revolutus* (Celastraceae) (1983) N.S. Kumar, P.M. Muthukuda and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Adv. Sci.* **39** 87
43. Two triterpene 1,2-diols from *Euonymus revolutus* (Celasatraceae) (1983) N.S. Kumar and P.M. Muthukuda *Proc. Sri Lanka Assoc. Adv. Sci* **39** 88
44. Antibacterial and antifungal activity of some seaweeds in Sri Lanka (1983) W.R. Wimalasiri, B.M.R Bandara, N.S. Kumar, A.A.L. Gunatilake, S. Balasubramaniam and N.K.B. Adikaram *Proc. Sri Lanka Assoc. Adv. Sci* **39** 82
45. Composition and sequence of uronate residues in alginates from some brown seaweeds using $^1\text{H-NMR}$ spectroscopy. (1982) S.S.M. de Silva, N.S. Kumar and P. Aman, *Proc. Sri Lanka Assoc. Adv Sci* **38** 53
46. Screening of seaweed extracts for bactericidal and fungicidal activity (1982) S.K.T. Gamage, N.S. Kumar and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Adv. Sci*, **38**, 55
47. Triterpenes from the stem bark extract of *Euonymus revolutus* (Celastraceae) (1982) P.M. Muthukuda, N.S. Kumar and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Adv. Sci.* **38** 54
48. A new trioxygenated friedelane derivative from *Euonymus revolutus* (Celastraceae) (1982) N.S. Kumar, P.M. Muthukuda and S. Balasubramaniam, *Proc. Inst.Chem.Ceylon.* **11** 3

49. Bactericidal and fungicidal activity of extracts from the brown seaweed *Turbinaria*. S.S.M. de Silva, S.K.T. Gamage, N.S. Kumar and S. Balasubramaniam *Proc. Sri Lanka Assoc. Adv Sci* .
50. Alkali treated agar gels from some species of *Gracilaria* (1981) S.K.T. Gamage, S.S.M. de Silva, NS Kumar and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Adv Sci*, **37**, 61.
51. Triterpenes from the leaves of *Pleurostyliia opposita* (Celastraceae) P.M. Muthukuda, N.S. Kumar and S. Balasubramaniam 1981 *Proc. Sri Lanka Assoc. Adv Sci* .
52. ¹³C-NMR Chemical shifts of some oxygenated lupane derivatives from *Pleurostyliia opposita* (Celastraceae) (1981) A.P. Dantanarayana, N.S. Kumar and M.I.M. Wazeer *Proc. Sri Lanka Assoc. Adv Sci* **37**, 76
53. Antibacterial activity of seaweed extracts. S. de Silva, S. Gamage, S. Kumar and S. Balasubramaniam (1981) *Proc. Ann Sess. Inst. Chem. Ceyl.*, **10**, 22.
54. A new dioxygenated lupane from *Pleurostyliia opposita* (Celastraceae) A. P. Dantanarayana, PM Muthukuda and N.S. Kumar (1981) *Proc. Ann Sess. Inst. Chem. Ceyl.*, **10**, 21
55. Four new oxygenated lupane derivatives from *Pleurostyliia opposita* (Waal) Alston, (Celastraceae) (1980) A. P. Dantanarayana, S. Kumar, M.U.S. Sultanbawa and S. Balasubramaniam *Proc. Sri Lanka Assoc. Adv. Sci* **36** 69
56. Constituents of stem bark of *Elaeodendron* sp (Family Celastraceae). (1980) S. Balasubramaniam, N.S. Kumar, V. Kumar and G. Weeratunga, *Proc. Sri Lanka Assoc. Adv. Sci* **36** 71
57. Effect of a 6 β -hydroxy substituent on the chemical shifts of the tertiary methyl groups in the NMR spectra of some lupane derivatives (1980) A. P. Dantanarayana, S. Kumar and M.U.S. Sultanbawa, *Proc. Sri Lanka Assoc. Adv Sci* **36** 74
58. Carbohydrate constituents of the marine algae of Sri Lanka. Part II. Carbohydrates from some brown algae (1980) S. de Silva, S. Kumar M.U.S. Sultanbawa and S. Balasubramaniam. *Proc. Ann. Sessions Inst Chem Ceyl.* **9**, 5
59. Phycocolloids extracted from some red algae of Sri Lanka. A. P. Dantanarayana, N.S. Kumar, M.U.S. Sultanbawa and S. Balasubramaniam (1979) *Proc. Sri Lanka Assoc. Adv Sci.* **35** 41
60. Preparation and properties of some modified manioc starches S.S.M. de Silva, J.M.P. Jayasundera and N. S. Kumar (1979) *Proc. Sri Lanka Assoc. Adv Sci.* **35**, 47
61. Studies on pectin (Part II) (1975) J.A.G. Anandarajah and N. S. Kumar *Proc. Sri Lanka Assoc. Adv Sci* **31**, 51
62. A Novel biphenyl from *Shorea worthingtonii* Ashton and *Vatica obscura* Thw. (Dipterocarpaceae) Y.A.G.P. Gunawardana, N.S. Kumar and M.U.S. Sultanbawa (1975) *Proc. Sri Lanka Assoc. Adv Sci.* **31** 61
63. Chemical Investigation of the extractives of *Vateria copallifera* (Retz.) Alston (Diperocarpaceae) (1975) Y.A.G.P. Gunawardana, N.S. Kumar and M.U.S. Sultanbawa *Proc. Sri Lanka Assoc. Adv Sci* . **31**, 62
64. Studies on Pectin (Part 1) (1974) J.A.G. Anandarajah, S.G. Canagaratane and S. Kumar *Proc. Sri Lanka Assoc. Adv Sci* . **30**,120
65. Acid modified manioc starch. (1973) D.S. Jayasuriya , N.S. Kumar and S. Silva *Proc. Sri Lanka Assoc. Adv Sci.* **29** 152
66. A thin boiling starch from manioc for the textile industry. D.S. Jayasuriya, S. Kumar and S. de Silva (1973) *Seminar on Manioc. Inst. Chem Ceylon* June-July 1973

TEXTBOOKS AND MONOGRAPHS AND CHAPTERS IN BOOK

1. *National Workshop on Separation Techniques and Spectroscopy in Organic Chemistry*. Separation of Biological Molecules by Gel Filtration Chromatography. Savitri Kumar (1996). IFS and SLAAS-E2
2. "Practical Handbook" 1990. Regional Workshop on Carbohydrates and Carbohydrate containing Natural Products.
3. *Practical Organic Chemistry*. A Laboratory Handbook for B. Sc. (General) Degree. N. S. Kumar, Dept. of Chemistry, Faculty of Science, University of Peradeniya
3. *Practical Organic Chemistry* A Laboratory Course Book for the Qualifying Year. N. S. Kumar, Dept. of Chemistry, Faculty of Science, University of Peradeniya
- 4 *Our World of Science*. (Ed. Janaki Galapatti). The Nucleic Acids. N. S Kumar pp 16-21. Published by the British Council for the Canadian International Development Agency UGC GELT Project

PATENTS - None**CONTRIBUTIONS TO NATIONAL AND INSTITUTIONAL DEVELOPMENT****3.5.1.1.**

- i *Head*, Department of Chemistry, June 2001 – August 2004
- ii. *Principal Investigator*. Asian-Swedish Research Partnership Program "Environmentally acceptable control of pests infesting vegetable plots in tea areas" June 2002 – 2008
- iii. *Member*, Senate Research Committee, University of Peradeniya, Nov 2000- 2003
- iv. *Committee*- Staff Development Center, University of Peradeniya 1999 – 2001
- v. *Member*, Career Guidance Unit, University of Peradeniya (1999-2001)
- vi. *Member*, Board of Discipline, University of Peradeniya. 1997-2000
- vii. *Member*, Academic Development and Planning Committee, University of Peradeniya (1997-2000)
- viii. *Senior Student Counsellor (Part time)*, Faculty of Science , (1994-98)
- ix. *Supervisor and Director of Research* for postgraduate students. (1974 – to date)
- x. *Administration* of foreign and local research grants from 1974

ORGANIZATION OF WORKSHOPS/SYMPOSIA/CONFERENCES

- i. Chairperson and Coordinator – "Workshop on Bioassays for Natural Product Research". IFS, Hantana Kandy. March 25- 26th 2010

- ii. *Coordinator* – “Gateway to Success” Career Fair and Exhibition, organized by the Alumni Association, University of Peradeniya, September 27th 2008
- iv. *Co-coordinator*, Short Course on Chemical Resources for New Industries, PGIS, University of Peradeniya, Dec 17-19 2004
 - iv. *Co-coordinator* “Short course on Industrial Raw Materials in Sri Lanka: Occurrence and Processing”. University of Peradeniya, Feb 14-16 2003 PGIS.
- v. *Coordinator*, Workshop on Environmental Organic Chemistry. Jan 20-22 and Jan 25-27 2002 - PGIS, in collaboration with the Ministry of Environment and Natural Resources
- v. *Coordinator*, Regional Training Programme Management of Natural Resources. Oct – Nov 2001. PGIS and Technical Cooperation Programme of the Ministry of Foreign Affairs.
- vi. *Member, Organizing Committee*. Workshop on Liquid Chromatography July 20-23 1999 Dept. of Chemistry and PGIS. Sponsored by SAREC, Sida and NSF
- vii. *Coordinator*, Leadership and Management Skills for women in higher education – Training Workshop Organized by Staff Development Centre, University of Peradeniya and sponsored by Bank of Ceylon, Center for Women’s Research (CENWOR) and National Science Foundation of Sri Lanka
- viii. *Member, Organizing Committee*. Symposium on Bioactive Natural Products. Nov 11-15 1996. Dept. of Chemistry, University of Peradeniya. Sponsored by SAREC, Sida and NSF
- ix. *Coordinator*, AAUP Workshop on Career Guidance for Undergraduates, University of Peradeniya December 1996 and July 1999
- x. *Member, Organizing Committee* *Symposium on Natural Product Chemistry*, Peradeniya. 20-23 May 1991, Institute of Chemistry and Royal Society of Chemistry Sri Lanka section
- xi. *Coordinator, Regional Workshop on Carbohydrates and Carbohydrate containing Natural Products*, July 12-16, 1990. Sponsored by IFS, IPICS, UNESCO, TWAS and University of Peradeniya
- xii. *Resource Person*, Workshop for GCE (A/L) Chemistry teachers 10-13 December 1990, University of Peradeniya

- xiii. *Resource Person* National Workshop on techniques and applications of Gas Chromatograph - Mass Spectrometer, October 2-6 1989 Sponsored by CISIR - IPICS - NARESA

SERVING IN NATIONAL COMMITTEES

- i. *Council Member*, National Research Council. 1999 – December 2004
- ii. *Member* NSF Working Committee on Chemical and Earth Sciences 2001-2002
- iii. *Member*, Research Committee in Chemistry, National Science Foundation of Sri Lanka 2002-2003
- iv. *President* – Alumni Association University of Peradeniya (2007- March 2009)
- v. *President* – Soroptimist International Kandy 2005-2007.
- vi. *President* – Alumni Association University of Peradeniya (1999)

SERVING IN PROFESSIONAL BODIES

- i. *Member*, Board of Management, Postgraduate Institute of Science (PGIS), University of Peradeniya, 2001-2004.
- ii *Chairperson*, Board of Study in Chemical Sciences Board, 1999 – August 2004, PGIS, University of Peradeniya,
- iii. *Council Member*, Institute of Chemistry, Ceylon. 1995

DISSEMINATION OF KNOWLEDGE

Teaching.

1. Courses in Organic Chemistry at General (2nd and 3rd year) and Special Degree (3rd and 4th year) undergraduate level; Supervision of undergraduate research projects in Organic Chemistry; Postgraduate teaching and research at the University of Peradeniya..
2. Visiting Lecturer. “Carbohydrate Chemistry” for B. Sc. Special degree students, University of Colombo. April – May 1980.
3. Lecturer Graduateship Course in Chemistry, Conducted by the Institute of Chemistry, Ceylon. “Chemistry of Carbohydrates” March – April 1981

Invited Lectures at Seminars

1. “Problems encountered in Bioactive Natural Product Research” (Keynote address) Training Seminar on “Bioactive Natural Products, Current Status and Future Scenario”. Jan 22nd 2009

2. "Separation of Biological Molecules by Gel Filtration ". National Workshop on Separation Techniques and Spectroscopy in Organic Chemistry. (1996) Oct. 31-Nov. 1st Institute of Fundamental Studies, Kandy and SLAAS- E2
3. "Prof. M.U.S. Sultanbawa Oration" on the occasion of the Opening of the M.U.S. SULTanbawa Laboratory at the new headquarters of the Inst. of Chemistry Ceylon. N. Savitri Kumar. *Chemistry in Sri Lanka*. **22** (2) p 48-54
4. "Prof. M.U.S. Sultanbawa Memorial Lecture". (1999). *Chemistry in Sri Lanka*. **16** (2) p 39-44

Collaborations with International Institutes

1. Prof. Bengt Lindberg, Dr. Per-Erik Jansson and Dr. Gorin Widmalm; Dept. of Organic Chemistry, Arrhenius Laboratory, University of Stockholm, Sweden. Research collaboration. *Publication Nos. 11, 24 & 27*
2. International Program in Chemical Sciences (IPICS), Uppsala University, Uppsala, Sweden. *Research Fellowships* awarded for *Sandwich Ph. D. Programmes* Dr. Shyamali de Silva, Dr. Swarna Wimal Siri, Dr. R.M.S.K. Ratnayake and Dr. Thushari Bombuwala; *Sandwich M. Phil. Programmes* Ms. Mahashinie Rajapaksha
3. Prof. Jan Petersson and Dr. Robert Glinwood, Dept. of Ecology, SLU, 750-07 Uppsala, Sweden. Research collaboration *Publication Nos. 1 & 2*
4. Dr. Per Aman, Swedish University of Agricultural Sciences, Uppsala, Sweden. Research collaboration *Publication No. 28*
5. Prof. J. Reisch, Institut für Pharmazeutische Chemie der Universität Münster, Germany. Research collaboration *Publication Nos. 14-17*
6. Prof. M.I.M. Wazeer, University of Petroleum and Minerals, Dharam, Saudi Arabia. Research collaboration *Publication Nos. 31 & 35*
7. Prof. G. G. S. Dutton, Dept. of Chemistry, University of British Columbia, Vancouver, B.C., Canada. Research collaboration.
8. Dr. John MacLeod, Research School of Chemistry, Australian national University, Canberra, Australia. Research collaboration. *Publication No. 30*
9. Prof. G.O. Aspinall, York University, Ontario, Canada. Research collaboration. *Publication Nos. 33 & 39*