

CURRICULUM VITAE



Office

Department of Textile and Clothing Technology
University of Moratuwa
Moratuwa 10400
Sri Lanka.

Email : samu@uom.lk

Phone: +94-112-640-480 ext. 6016 **Mobile:** +94-718-178-976

Fax: +94-112-651-787

Research and Teaching Interests

Colouration and Finishing in Textile Technology, Environmental Management & Cleaner Production Techniques, fibres and new application, Polymers and new innovations, Chemical Engineering areas

Education

University of Moratuwa – 2004-2010

Ph.D. in Exploration of newer natural dyes to Sri Lankan Textile Industry (2010)

University of Moratuwa – 1996-2000

MPhil in Environmental Engineering in Textiles (2000)

University of Moratuwa, Sri Lanka, 1986-1993

B.Sc. (Honours) in Chemical Engineering-2nd Class upper (1993)

FULL NAME: Udumalagala Gamage Samudrika Wijayapala

DESIGNATION : Associate Professor

NAME WITH INITIALS: U.G.S. Wijayapala

DATE OF BIRTH: 21st December 1966

ADDRESS: 236/B, Kudamaduwa , Siddamulla ,Piliyandala, Sri Lanka

TELEPHONE NUMBERS: (+94)11 2640480 ext.6016 (Office) , 011 2700594 (Home),
0718178976 (Mobile)

E-MAIL ADDRESS: samu@uom.lk

QUALIFICATIONS: Ph.D., M.Phil.
B.Sc. (Eng.) in Chemical Engineering – Second (upper) Class – 1993,
University of Moratuwa, Sri Lanka

WORK EXPERIENCE:

| DATES | POSITION | ORGANISATION |
|---------------------|--------------------------|--|
| June1993-May 1994 | Temporary Instructor | Department of Chemical & Process Engineering ,University of Moratuwa |
| May 1994-July 1995 | Temporary Instructor | Department of Textile Technology ,University of Moratuwa |
| July 1995- Aug 2000 | Lecturer (probationary) | Department of Textile Technology ,University of Moratuwa |
| Aug. 2000 to 2006 | Senior Lecturer Grade II | Department of Textile Technology ,University of Moratuwa |
| Aug.2006 to date | Senior Lecturer Grade I | Department of Textile Technology ,University of Moratuwa |

OTHER RELEVANT EXPERIENCE

- Lead Auditor in ISO 14000 Certification
- Completed a cleaner production audit programme at Sigiri weaving mills, Ratmalana.
- Chartered Engineer IESL.

RESEARCH AND PUBLICATIONS:

International Publications

1. Vankar P. S., Shanker R. , **Wijayapala S.** , de Alwis A.P.P., de Silva N.G.H., “Dyeing of cotton, wool and silk with extract of *Nephelium Lappaceum* (Rambutan) pericarp ”, Asian Textile Journal – July 2007 , pp 66 – 70
2. Vankar P. S., Shanker R. , **Wijayapala S.** , de Alwis A.P.P., de Silva N.G.H. ,“Dyeing of cotton, wool and silk with extract of *Salacia Prenoids* (Kothala Himbutu)”, Asian Textile Journal , June 2007, pp 69 – 74
3. Vankar P. S, Shanker R. , **Wijayapala S.** , de Alwis APP, de Silva NGH, “Dyeing of cotton, wool and silk with extract *Coscinium fenestratum* (Weniwal) ”, Asian Textile Journal ,October 2007, pp 59 – 64
4. Vankar P. S., Shanker R., **Wijayapala S.** , “Improved wash and light fastnesses by sonicator dyeing of cotton, silk and wool with *Curcuma domestica valet* extract”, International Dyer193 (7), June 2008 , pp 38-42
5. Vankar P. S., Shanker R. , **Wijayapala S.** , "Dyeing of Cotton, Wool and Silk with extract of *Allium Cepa*" , Journal of Pigment and Resin Technology , Jan. 2009

6. Vankar P. S, Shanker R. , **Wijayapala S.** , “Dyeing Cotton, Silk and Wool yarn with extract of *Garcinia mangostana pericarp*,” the Journal of Textile and Apparel, Technology and Management (JTATM),Volume 6 , Issue 1 , 2009
7. Vankar P. S., Shanker R. , **Wijayapala S.** , “Utilisation of temple waste flower *T. erecta* (Marigold) for dyeing of Cotton, Wool and Silk on industrial scale”, the Journal of Textile and Apparel, Technology and Management (JTATM),Volume 6, Issue1, 2009
8. Vankar, Padma S.; Shanker, Rakhi; **Wijayapala, Samudrika.** (2011) “Dyeing of cotton, silk and wool with bark extract of artocarpus heterophyllus lam.” 52-60 Research Journal of Textile and Apparel, 15(2), Publisher: Hong Kong Institution of Textile and Apparel Ltd., CODEN: RJTAA7 ISSN: 1560-6074. Journal written in English. AN 2011:865982 CAPLUS.
9. Padma S.Vankar , Dhara Shukla, **Samudrika Wijayapala,** Low Temperature Optimized Dyeing of Cotton, Wool and Silk with Extract of Camellia Sinensis (Tea Leaves), Journal of Textile Engineering & Fashion Technology, Volume 2 Issue 1 , June 12- 2017.
10. Innovative silk dyeing using enzyme and Rubia cordifolia extract at room temperature Padma S. Vankar Dhara Shukla, **Samudrika Wijayapala,** Pigment & Resin Technology,Volume 46, Number 4 · 2017,296–302
11. Dhara Shukla, **Samudrika Wijayapala** and Padma S Vankar “Pain and Inflammation Relieving Herbs from Sri Lanka, International Journal of Pain & Relief, Volume 2 Issue 1 - 31 January 2018
12. Investigating the Ability to Transfer Antimicrobial Properties of Neem (*Azadirachta Indica*) Seed Oil to Cotton Knitted Fabrics, M.A.E.Ayomani, J.M.C.Hansadi, **S.Wijayapala,** MERCon 2018 May 30-June 1st ,T.3.2-5 [16:30],Page 83
13. **Effective mosquito repellent from plant based formulation Dhara Shukla, Samudrika Wijayapala and Padma S Vankar** International Journal of Mosquito Research 2018; 5(1): 19-24

International conference papers

1. **Samudrika U.G.**, “ Elimination of Inconsistency in Dip Dyeing Process in Sri Lankan Garment Industry”- International Conference on Value Addition & Innovation in Textiles (COVITEX) 2011.Organised by National Textile University, Faisalabad, Pakistan.
2. **Samudrika U.G.**, ‘Investigation of mordanting activity of the flower of *Nyctanthes arbortristis* (Sepalika) on natural dyed fabrics’. International Symposium on Polymer Science and Technology, University of Sri Jayewardenepura -2-4 November 2012 , Colombo, Sri Lanka.
3. **Samudrika Wijayapala**, ‘Development of Herbal Garments to Sri Lankan Textile Industry’. 1st International conference on Unani, Ayurveda, Siddha and Traditional Medicine -19th - 21st December 2013. Institute of Indigenous Medicine, University of Colombo, Rajagiriya, Colombo, Sri Lanka.
4. **Samudrika Wijayapala** , ‘Utilisation of temple waste Sepalika (Night-flowering Jasmine) flowers (*Nyctanthes arbortristis*) as potential colouring agents for textile substrates used in Textile Industry.’ Eighteenth International Forestry and Environment Symposium 2013,Organized by Department of Forestry and Environmental Science, University of Sri Jayewardenepura, Nugegoda, Sri Lanka. Held on 10th and 11th January 2014
5. **Samudrika Wijayapala** , ‘Investigation of Waste Tea Leaves (Black) as a Source for a Potential Colouring Agent for Textile Substrates for the Sri Lankan Textile Industry’ Eighteenth International Forestry and Environment Symposium ,2013 Organized by Department of Forestry and Environmental Science, University of Sri Jayewardenepura, Nugegoda, Sri Lanka. Held on 10th and 11th January 2014
6. Exploration of newer natural dyes to Sri Lankan textile industry ,**Samudrika Wijayapala**, 02nd International Conference on Apparel Textiles and Fashion Design, 24-25 March 2017 Galle Face Hotel, Colombo, Sri Lanka.
7. “Development of Curative Fabrics to Sri Lankan Textile Industry” , **Samudrika Wijayapala**, 5th International Conference on Ayurveda, Unani, Siddha & Traditional Medicine 2017 (ICAUST 2017) – “Ayurveda: Inspiring Health and Happiness”, 27th - 29th October 2017.
8. Development of mosquito repellent herbal garments to Sri Lankan Textile Industry , **Samudrika Wijayapala** ,5th International Conference on Ayurveda, Unani, Siddha & Traditional Medicine 2017 (ICAUST 2017) – “Ayurveda: Inspiring Health and Happiness”, 27th - 29th October 2017.
9. Imparting mosquito repellent property to fabrics through silver nano particles. **Wijayapala U. G. S.** , Samarasinghe S. D and Chandrika U. G., ANZNMF 2018 - 27-29 June 2018 / Auckland, New-Zealand
10. Microencapsulation of essential oils and impregnation onto a fabric. **Wijayapala S.**

23rd International Forestry and Environment Symposium 2018, 23rd -24th Nov. 2018 at ,
Waskaduwa ,Sri Lanka. Pg No. 50

11. Investigation of stabilization of natural dyes to textile dye industry. **Wijayapala S.**
23rd International Forestry and Environment Symposium 2018, 23rd -24th Nov. 2018 at
Citrus Waskaduwa ,Sri Lanka. Pg No. 70

Local conference papers

1. **Samudrika Wijayapala**, NGH de Silva, Ajith de Alwis, “Positive Environmental Management via waste minimization in a Garment washing facility” .Proceedings of the Annual symposium Engineering Research Unit (ERU), University of Moratuwa, Sri Lanka, November 1998, pp 157-167. (Research work based on my M.Phil. Degree and last two authors are supervisors)
2. **Samudrika U.G.**, de Alwis AAP, de Silva NGH, “Ozonation as a process water recycling option”. Silver Jubilee Conference of University of Peradeniya 2000. (Research work based on my M.Phil. Degree and last two authors are supervisors).
3. **U.G. Samudrika Wijayapala**, “Solid waste minimization at a narrow fabric production Mill” Proceedings of the 62nd Annual Sessions, Sri Lanka Association for the Advancement of science, 01st Dec.2001, pp 149 (Abs. No. C 148)
4. KPN Gunaratne, **Samudrika Wijayapala**, NGH de Silva, “Tea Polyphenols as Indegeneous natural plant Resource in preparation of Azo dyes for dyeing textiles.” Proceedings of the 9th Annual Symposium, Engineering Research Unit (ERU), University of Moratuwa, Sri Lanka, August 2003, pp D-3- D-5. (MSc project based on research work based on my Ph.D. degree, first author is M.Sc. Student and last two authors are supervisors)
5. **U.G. Samudrika**, AAP de Alwis, NGH de Silva “Investigation of leaves and saw dust of jak tree as potential colouring agent for textile substrates” – Proceedings of the 12th Annual Symposium 2003, Engineering Research Unit (ERU), University of Moratuwa, Sri Lanka, 29th Nov. 2006 – pp 103-105 at Taj Samudra Hotel, Colombo. (Research work based on my PhD degree and Last two authors are supervisors)
6. **U.G.Samudrika**, NGH de Silva, “Investigation of leaves and saw dust of jak tree as potential colouring agent for textile substrates” Proceedings of the 62nd Annual Sessions, Sri Lanka Association for the Advancement of science, 15th Dec.2006, pp 65. (Abs. No. 320/C) (Research work based on my Ph.D. degree and last author is a supervisor)
7. **U.G.Samudrika**, NGH de Silva “Investigation on Cashew nut Shell Liquid (CNSL) as potential colouring and finishing agents for Textile substrate”, Proceedings of the 62nd Annual Sessions, Sri Lanka Association for the Advancement of science,,15th Dec.2006, pp 63 (Abs.No. 318C). (Research work based on my Ph.D. degree and last author is a supervisor)
8. **Samudrika U.G.**, “Ultrasound techniques in Natural Dye application to Textiles” Proceedings of the 13th Annual Symposium, Engineering Research Unit (ERU), Nov.2007, pp 46-48.

9. **U.G. Samudrika Wijayapala**, “An Analysis of environmental performance of natural dyes”, Proceedings of the 14th Annual Symposium, Engineering Research Unit (ERU) , University of Moratuwa, Sri Lanka, 15th Oct. 2008, pp 26-27.
10. **U.G. Samudrika Wijayapala**, “Extraction of natural dyes as textile colourants from kitchen wastes”, Proceedings of the 14th Annual Symposium, Engineering Research Unit (ERU) , University of Moratuwa, Sri Lanka , 15th Oct. 2008, pp 43-44.
11. Wathsala Abeysinghe, Prabath Suraweera, Suresh Kumaratunge, **U.G. Samudrika Wijayapala**, “Extraction, Isolation & Identification of colouring substances in local natural dye yielding plants ”, Proceedings of the 14th Annual Symposium, Engineering Research Unit (ERU), University of Moratuwa, Sri Lanka, 15th Oct. 2008 , pp 138-139. (Final year project based on my research work for Ph.D. degree)
12. **U.G. Samudrika Wijayapala**, “Investigation of Domestic kitchen wastes as potential colouring agent for textile substrates”, Proceedings of the 64th Annual Sessions, Sri Lanka Association for the Advancement of science, Dec. 2008, pp 267 (Abstract No. 266/B).
13. **U.G. Samudrika Wijayapala**, “An Environmental burden analysis of synthetic dye vs. natural dyes”, Proceedings of the 64th Annual Sessions, Sri Lanka Association for the Advancement of science, Dec. 2008, pp 63 (Abstract No. 310/C).
14. **U.G. Samudrika Wijayapala**, D.K.A.S Dharmasena, D.M.N Bandara, M.A.I Chathuranga, K.S. Rajapakshe, ”Development of a new scouring methodology for the textile industry.” Proceedings of the 19th Annual Symposium, Engineering Research Unit (ERU), University of Moratuwa, Sri Lanka, 26th November 2013.

Key Note Speech

Participated as the Key Note Speaker & session chair of the 3rd international conference on Apparel Textiles and Fashion Design (ATAFD) on 27th September 2018 @ Galle Face Hotel, Colombo, Sri Lanka.

Theme of the key note speech was “**Going all the way and coming back to Natural Dyes!**” which was highly impressed and appreciated by the attendees including educators, students, professionals, scholars and researchers from all over the globe.

Non related referees

Professor Ajith de Alwis

BSc Eng (Moratuwa) MBA (PIM-SriJ) PhD (Cambridge) MAIChe FNASSL
 Professor of Chemical and Process Engineering
 University of Moratuwa
 Moratuwa,
 Sri Lanka.10400

Professor SAS Perera,
Professor of Chemical and Process Engineering
Department of Chemical and Process Engineering
University of Moratuwa
Moratuwa
Sri Lanka. 10400

