

TWO-DAYS NATIONAL WORKSHOP ON NATURAL DYEING OF TEXTILES: IN BATIK AND SHIBORI STYLE

at
Kennedy Hall
Department of Jute and Fibre Technology
Institute of Jute Technology,
University of Calcutta

On
16 – 17 September, 2016



Organized by
TEIQIP Cell of University of Calcutta
and
Department of Jute and Fibre Technology,
Institute of Jute Technology, University of Calcutta
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Theme

There is a tremendous change in required product criteria as per today's increased customer awareness on environmental pollution control and related issues and hence the demand of ecofriendly textile products with natural dyes and finishes on natural fibers are being gradually increasing in cotton and synthetic textiles sector in last two decades. In one way, currently, scientists are searching for alternative less polluting chemicals and dyes for chemical processing of all types of textiles, and in other way the ancient age old technology of applying natural chemicals/dyes/pigments and finishes etc. obtained from different natural resources to apply on natural fibres to obtain organic or ecofriendly products of natural textiles utilizing different ancient and heritage technique, art and design is well known in India to produce attractive natural fibre based ecofriendly textiles. India is highly rich in heritage textile art and techniques as well as rich also in natural wealth for obtaining natural colorants. In last two decades, there is constant research and developmental work worldwide for revival of natural dyes to find different scientific analysis and standardizing application of natural dyes on textiles for its manifold advantages and customers' special demand of natural dyed natural fibre based organic textiles for apparel and home furnishing etc. With the globalization issue, the need of development of scientific process with competitive and economic manufacturing technologies for developing such natural dyed and natural fibre based organic textiles in both cotton and silk textile sector have become highly important in today's context of environmental concern. .

There are specialized techniques of natural dyes application for different shade development using different natural dyes/pigments with or without different mordants or bio-mordants available in nature. Some of the common natural dyes most widely used are Indigo, Madder, Marie-gold, Turmeric, Pomogrenate rind, Catechu, Jack fruit wood, Red-sandal wood, Babool, Indigo blue etc. and so many. Indigo blue as one such natural dye obtained from a variety of cultivated Indigo plants and species is of special mention worthy. Once, it was so popular in Indian subcontinent, that it created a history of "Nil-Revolution" and has got spanned throughout the human history. Scientifically, Indigo blue being a vat dye, which gives blue color to cotton fabric through a process of reduction, oxidation, and mechanical entrapment inside the fibre even without a mordant. Indigo blue dyeing on cotton may be achieved by mixing natural reducing agents or natural anti-oxidants i.e. mixing the natural indigo with calcium hydroxide (pickling lime) and natural reducing agent like henna or cooked fructose syrup or molasses, which can be obtained from organic materials having antioxidants (e.g. collected kitchen scraps such as carrot

peels, non-citrus fruits, corn cobs etc.) as organic and non-harmful reducing agents (although some dyers use chemical reducing agents such as thio-urea dioxide or sodium hydrosulphite for reducing time), by which steps, the extract of Indigo blue become soluble golden liquid after reduction to a leuco-vat indigo dye solution ready to apply on cotton textiles and the natural Indigo vat then turns green gradually on the fiber as further oxidization begins after dyeing is over in air and quickly transforms to permanent blue, as it fully oxidizes in air or water with dissolved oxygen.

This two-days “ **National Workshop On Natural Dyeing of Textiles: in Batik and Shibori Style**” to be held on **16th and 17th September 2016 at this Dept.** organized jointly by TEIQIP Cell of Calcutta University and this Dept. of Calcutta University is a very special and unique type to demonstrate the Traditional Indian Heritage of Batik and Shibori Style of natural dye art to produce different art effect in Batik and Shibori Style on cotton or silk natural textiles with different tie & dye technique to create a newer look to an ordinary fabric.

ABOUT TWO DAYS NATIONAL WORKSHOP ON NATURAL DYEING OF TEXTILES: IN BATIK AND SHIBORI STYLE

Yoshiko I. Wada is a reputed name in this field and she is the founder of Slow Fiber Studios and President of the World Shibori Network and this National workshop is from her inspiration of International workshop on the same being held regularly in USA and other country. Miss Kavyashree M, the founder of MAHILA GROUP , is inspired from **her** and is a follower of Madam Yoshiko I. Wada practicing natural dye art create in India and is also Guest lecturer in Fashion and Apparel design Dept. of Bangalore University teaching Creation of Art and Fashion with natural dyeing technique in Batik and Shibori style for spreading these heritage sustainable and organic dyeing technique of natural dyeing to university students of different university /Institute and artisans and dyers of different organizations including her own created group MAHILA, an organic textile product manufacturer of India. She is a Fashion/Textile chemist cum practicing dyer and environmentalist and her team consists of Chemist and Botanist too. She has organized more than 12 workshop in India to spread these natural dye art and technique for students/ academicians/scientist and artisans, dyers and manufacturer or exporters of natural dyed textiles.

A bunch of invited experts on natural dye researchers/scientists / academicians/ experts/ practitioners and natural dyers of industry including Dr. Padma S Vankar, Principal Research Scientist FEAT, IIT-Kanpur, Mr. Y A Shah, CEO, M/s. AMA Harbal Laboratories, Lucknow, Mr Bireswar Biswas, Partner of M/S Associated Exports, Kolkata, Dr. Deepali Singhee, Principal-JDBI, Kolkata and concern Senior Faculty of this Department will speak on fundamentals of extraction, mordanting and Natural dyeing techniques and standardization of methodology of Natural Dyeing to obtain reproducibility , Testing and characterization of natural dyes , Care and precautions of natural dyeing, Indian heritage textiles produced with natural dyes, production of compound shades with natural dyes and test of compatibility of pairs of natural dyes, Industrial practice on natural dye extraction and application by different experts /contributors attending this workshop. A CD will be made available to all participants with the small write up on each issues of natural dyes and its

application. Later on after the workshop is completed a book of paper will be published and will be dispatched to all delegates within 3 months for future reference.

Miss Kavyashree M, the founder of MAHILA GROUP and Guest Faculty of Bangalore University will speak, interact and demonstrate the techniques of natural dyeing on cotton and silk with indigo and other natural dyes in the Batik and Shibori style using indigo /madder or other natural dyes on cotton textiles. A kit to each participant will be provided with small piece of fabric and required thread, chemicals, dyes etc. and small instruction of process steps and technique to follow for practice and doing the same on their own under supervision of Miss Kavyashree M in a batch/group in our departmental Chemical processing Lab. The team of Mahila and other experts will demonstrate and explore sophisticated techniques for Batik and Shibori style by manipulating tie & dye and other technique with fabric fold manipulation etc. and varying dyeing technique etc. to bring vibrant art and color to the cotton or silk fabric with folds, scrunches and pleats and even with the unique technique of sublimation. Besides practical learning the techniques, the textiles students of all local textiles, clothing and fashion design colleges and universities will learn how to combine natural colors and varying dimension of art effect to make transformative wearable art on cotton or silk or polyester organza and even chiffon. Combination of different techniques will create newer look and fashionable dyeing results on natural fibre based textiles to promote both Indian textile export and domestic market in this sector. Some standardized process of natural dyeing on Jute Fabric will also be explained by different invited speakers for jute and jute/cotton union fabric dyers as well

WORKSHOP COMMITTEES

Workshop Patron:

Hon'ble Vice Chancellor, University of Calcutta

Pro Vice-Chancellor (Academic), University of Calcutta

Pro-Vice-Chancellor (BA & F), University of Calcutta

Registrar, University of Calcutta

Dean, Faculty of Technology, University of Calcutta

Secretary, UCSTA, Dean, Faculty of Technology, University of Calcutta

Coordinator, TEIQIP Cell, University of Calcutta

Workshop Organizing Committee

Prof. S.K.Ghosh, HOD, DJFT, IJT, CU - Chairman

Prof. A.K.Samanta, DJFT, IJT, CU, Workshop Coordinator

Prof. S.K.Sett, DJFT, IJT, CU

Prof. S.C.Ray, DJFT, IJT, CU

Dr. S K Biswas, DJFT, IJT, CU

Dr. A.Chaudhuri DJFT, IJT, CU

Dr. A. Mukherjee, DJFT, IJT, CU

Dr. R.S.Chanda, DJFT, IJT, CU

Dr. A.K Singha, DJFT, IJT, CU

Mr. K.K.Dalapati, DJFT, IJT, CU

Dr. D.Das, DJFT, IJT, CU,
Dr, K.Bal, CU
Dr. Deepali Singhee, JDBI
Dr. Suanada Mitra Ray, RBGC
Prof A Konar, GCETTS

CALL FOR INVITED LECTURES AND SUBMISSION OF PAPERS

Invited lectures and specific practical oriented research papers on the said theme topics/ areas of the said **two-days national workshop on natural dyeing of textiles: in Batik and Shibori style** are invited from interested academicians/ Scientists/Industry dyers /practitioners/individuals for presentation in this said national workshop on natural dyes. Two copies of the hard copy and one soft copy of the Abstract and full paper in the following format are to be submitted as per the schedule given below (papers should be very short and of general interest).

- 1) The paper should not exceed ten to fifteen typed (12 pt) pages (a4 size).
- 2) It should be in single column format with 1.5 spacing.
- 3) The text should be in Times New Roman having a font size of 11pt. for text, 12pt. for headings and 14pt. for paper title. Text and Figures all should be also sent in a CD M. S. Word version, with author's name embossed on CD.
- 4) The paper should be prepared in the following order & style :
 - i) Title of paper
 - ii) Name of authors with affiliation
 - iii) Abstract
 - iv) Introduction
 - v) Body of the paper (Experimental, Results & Discussion)
 - vi) Conclusions/Suggestions
 - vii) References and
 - viii) Acknowledgement, if any
- 5) The paper should be submitted to the Head of The Department or Workshop Coordinator /Convener to the following address within due dates :

Dead Lines

Submission of Abstracts	20 th August, 2016
Submission of full Papers	30 th August, 2016
Notification of acceptance	6 th September, 2016

Address for Communication

Prof. Swapan Kumar Ghosh, Head of the Department
Or Prof. Ashis Kr. Samanta, Workshop Coordinator
Department of Jute and Fibre Technology, Institute of Jute Technology, University of Calcutta,
35, Ballygunge Circular Road, Kolkata – 700 019, West Bengal
Tel: 033-2461-5444/5477 , fax: 033-2461-5632
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ijtskg40@gmail.com, Mobile-09831324354
ijt@cal2.vsnl.net.in

CALL FOR REGISTRATION OF DELEGATES AND STUDENTS MEMBERS IN TWO-DAYS NATIONAL WORKSHOP ON NATURAL DYEING OF TEXTILES : IN BATIK AND SHIBORI STYLE on 16th and 17th September 2016 at Kennedy Hall , DJFT,IJT,CU

Delegate/Students Registration Form

The Head of the Dept./ Workshop Coordinator
Dept. of Jute and Fibre Technology,
Institute of Jute Technology, University of Calcutta
35, Ballygunge Circular Road, Kolkata -700 019 , West Bengal.
Phone : (91) (033) 2461 5444/ 5477, Tele fax : 033-2461-5632
E-mail : ijtaksamanta@hotmail.com ; ijtskg40@gmail.com

NAMES OF THE DELEGATES/ PARTICIPANTS/AUTHORS/ STUDENTS/OTHERS :

1) Name : (Veg/Non-veg)
Status of delegate ; Individual/Academicians/ Scientists/ Researchers /Industry Executives/ Students
Designation :
Organization :
.....
Individual's Mobile No :
Individual's Email :

2) Name : (Veg/Non-veg)
Status of delegate ; Individual/Academicians/ Scientists/ Researchers /Industry Executives/ Students
Designation :
Organization :
.....
Individual's Mobile No :
Individual's Email :

Company / Individual Address for Communication and Phone/Fax No. :
.....
.....
Company /Individual Phone No., Fax
Company / Individual E-mail :

- 1) I/We wish to attend the above said National workshop for two days on 16th and 17th Sept-2016 as registered delegates or as author /speakers invited/submitted for a lecture or to read a paper (Please cross whichever is not applicable) --- (For Individuals)
- 2) This is to inform you that the above mentioned persons from our organizations will attend the above said National workshop for two days on 16th and 17th Sept-2016 as registered delegates
- 3) Please find enclosed Cash amount /*DD /Cheque No dated..... drawn on Bank , branch -----, Kolkata / elsewhere towards delegate fees for me/us/them.

Date : Signature
Designation :
Seal :

***DD/ Cheque should be drawn in favor of "Department of Jute and Fibre Technology, University of Calcutta " payable at Kolkata.**

Venue : DAY 1 & 2 :At Kennedy Hall and Textile Chemical Processing Lab. of DJFT, IJT ,CU
35 Ballygunge Circular Road, Kolkata-700 019 on 16th and 17th September-2016 (Fri& Sat)
at 10-00 a.m. to 5-30 p.m. daily.

Registration/Delegate Fees

<u>Category of Delegates:</u>	<u>Fees per person (within 6th Sept.'16)</u>	<u>After Due Date (After 6th Sept, 16)</u>
Students Member from any Jute / Fibre Textile /Clothing and Fashion and apparel Degree Colleges /Technician Members of IE(I)	: Rs. 100 /-	: Rs. 200/-
Individual Delegate	: Rs. 400/-	: Rs. 800/-
Organizational Delegate	: Rs. 500/-	: Rs. 1000/-
Invited Speakers/Authors (Hony Delegate)	: Free	----

Associte-Ship /Sponsorship /Co –Sponsorship Fees

Associate-ship Fee (10 delegates free)	Rs. 50,000/-
Sponsorship fee (4 delegates free)	Rs. 20,000/-
Co-Sponsorship Fee (2 delegates free)	Rs. 10,000/-

Delegates from Individuals/Academicians/ Scientists/ Fellow Researchers/ Artisans/ Dyers/ Exporters/ Jute , Textile and Garment Industry personnel / Executives and also Students Members from any University /Institute of Jute / Fibres /Textile Technology / Textiles and Clothing / Fashion Technology / Fashion and Apparel Design Diploma and Degree or PG Colleges/Universities and also from Technician /Students Members of IE(I)-WBSC etc. are requested to enroll their name in sufficient advance by registering using the above Delegate registration form with payment of Registration fee either in cash or by Cheque or Darft as mentioned in the Delegate Registration form and category within due date 6th September, 2016. Any registration of delegates after 6th September, 2016, the delegation fee is double and there will be no spot registration on the day of workshop. Invited speakers/main or corresponding author or contributor of paper (one author / contributor per paper) will be considered as honorary delegate and no registration fee will be required for them.