

THE

Journal

OF THE AMERICAN
LEATHER CHEMISTS ASSOCIATION



107th Annual Convention

to be held at the
Treasure Island
Resort & Casino
Red Wing, MN
June 9-12, 2011

For more information go to
www.leatherchemists.org

ISSN: 0002-9726

April 2011

Vol. CVI, No. 4

JALCA 106(4), 113-144, 2011

CONTENTS

Green Chemistry Approach in Leather Processing: A Case of Chrome Tanning	113
<i>by M. KUMAR, R. ARAVINDHAN, K. SREERAM, J. RAO AND B. NAIR</i>	
Dyeing/Cross-Linking Property of Natural Iridoids to Protein Fibers Part I. Preparation of Four Natural Iridoids and Their Dyeing/ Cross-linking (Tanning) Property to Hide Powder	121
<i>by B. ZHANG, L. XU AND K. DING</i>	
Automated Clean Leather Dyeing Assisted by Wringing, Ultrasound and Microwave	127
<i>by Y. GONG, K. CHENG, T. ZHANG AND W. CHEN</i>	
The Subjective Measurement of Leather Handle by Descriptive Sensory Analysis	133
<i>by Y. WANG, G. ATTENBURROW, P. PICTON, S. TURNER</i>	
Lifelines	141
ALCA and Industry News	
The 107th Annual Convention, June 9-12, 2011	142
Peabody Leatherworkers Museum — Can You Help???	142
The 52nd John Arthur Wilson Memorial Lecture	143
Research Liaison Committee Meeting at USDA, April 26-27, 2011	144

COMMUNICATIONS FOR JOURNAL PUBLICATION

Manuscripts, Technical Notes and Trade News Releases should contact

MR. ROBERT F. WHITE, *Journal Editor*, 1314 50th Street, Suite 103, Lubbock, TX 79412, USA.

E-mail: jalcaeditor@prodigy.net

Mobile phone: (616) 540-2469

Contributors should consult the Journal Publication Policy at
http://www.leatherchemists.org/journal_publication_policy.asp

JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION

*Proceedings, Reports, Notices, and News
of the*
AMERICAN LEATHER CHEMISTS ASSOCIATION

OFFICERS

CRAIG G. KEYSER, *President*

Flame Seal Products, Inc.
19 Lake Drive
North Brunswick, NJ 08902

ANDREAS W. RHEIN, *Vice-President*

S. B. Foot Tanning Co.
805 Bench Street
Red Wing, MN 55066

STEVEN GILBERG, *Vice-President Elect*

Tanmach Limited
780 Hardwick Road, PO Box 546
Bolton, Ontario L7E 5T4
Canada

COUNCIL

Michael Bley

Eagle Ottawa LLC
2930 Auburn Road
Rochester Hills, MI 48309

Goetz Hagen

BASF Corporation
4330 Chesapeake Drive
Charlotte, NC 28216

Andy Porter

Prime Leather Finishes Co.
1002 Hickory Street
Pewaukee, WI 53072

Alex Campbell

Stahl USA
13 Corwin Street, PO Box 3039
Peabody, MA 01961-3039

Cheng-Kung Liu

USDA-ERRC
600 E. Mermaid Lane
Wyndmoor, PA 19038

George Stockman

Buckman Laboratories, Inc.
1256 N. McLean Blvd.
Memphis, TN 38108-1241

EDITORIAL BOARD

Chris Black
Consultant

Dr. Kenneth A. Boni
Retired

Dr. Eleanor M. Brown
Eastern Regional Research Center
U.S. Department of Agriculture

Dr. Nick Cory
Leather Research Laboratory
University of Cincinnati

Dr. Robert L. Dudley
Retired

Dr. Anton Ela'mma
Retired

Prasad V. Inaganti
Wickett and Craig of America

Dr. Graham Lampard
Leather, UK

Dr. Cheng-Kung Liu
Eastern Regional Research Center
U.S. Department of Agriculture

Dr. Edwin H. Nungesser
Dow Chemical Company

David N. Price
Consultant

Dr. Mila Aldema Ramos
Eastern Regional Research Center
U.S. Department of Agriculture

George Stockman
Buckman Laboratories, Inc.

Brandon Yoemans
S. B. Foot Tanning Co.

PAST PRESIDENTS

G. A. KERR, W. H. TEAS, H. C. REED, J. H. YOCUM, F. H. SMALL, H. T. WILSON, J. H. RUSSELL, F. P. VEITCH, W. K. ALSOP, L. E. LEVI, C. R. OBERFELL, R. W. GRIFFITH, C. C. SMOOT, III, J. S. ROGERS, LLOYD BALDERSON, J. A. WILSON, R. W. FREY, G. D. McLAUGHLIN, FRED O'FLAHERTY, A. C. ORTHMANN, H. B. MERRILL, V. J. MLEJNEK, J. H. HIGHBERGER, DEAN WILLIAMS, T. F. OBERLANDER, A. H. WINHEIM, R. M. KOPPENHOEFER, H. G. TURLEY, E. S. FLINN, E. B. THORSTENSEN, M. MAESER, R. G. HENRICH, R. STUBBINGS, D. MEO, JR., R. M. LOLLAR, B. A. GROTA, M. H. BATTLES, J. NAGHSKI, T. C. THORSTENSEN, J. J. TANCOS, W. E. DOOLEY, J. M. CONSTANTIN, L. K. BARBER, J. J. TANCOS, W. C. PRENTISS, S. H. FEAIRHELLER, M. SIEGLER, F. H. RUTLAND, D.G. BAILEY, R. A. LAUNDER, B. D. MILLER, G. W. HANSON, D. G. MORRISON, R. F. WHITE, E. L. HURLLOW, M. M. TAYLOR, J. F. LEVY, D. T. DIDATO, R. HAMMOND, D. G. MORRISON, W. N. MULLINIX, D. C. SHELLY, W. N. MARMER, S. S. YANEK, D. LeBLANC

THE JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION (USPS #019-334) is published monthly by The American Leather Chemists Association, 1314 50th Street, Suite 103, Lubbock, Texas 79412. Telephone (806)744-1798 Fax (806)744-1785. Single copy price: \$8.50 members, \$17.00 non-member. Subscriptions: \$175 for hard copy plus postage and handling of \$40 for domestic subscribers and \$50 for foreign subscribers; \$175 for ezine only; and \$195 for hard copy and ezine plus postage and handling of \$40 for domestic subscribers and \$50 for foreign subscribers.

Periodical Postage paid at Lubbock, Texas and additional mailing offices. Postmaster send change of addresses to The American Leather Chemists Association, 1314 50th Street, Suite 103, Lubbock, Texas 79412.

Website: www.leatherchemists.org E-mail: ALCA@leatherchemists.org

COPYRIGHT 2011. THE AMERICAN LEATHER CHEMISTS ASSOCIATION