

THE

Journal

OF THE AMERICAN
LEATHER CHEMISTS ASSOCIATION



108th Annual Convention

to be held at the
Grandover Resort and
Conference Center
Greensboro, NC
June 7-10, 2012

For more information go to
www.leatherchemists.org

ISSN: 0002-9726

December 2011

Vol. CVI, No. 12

JALCA 106(12), 353-392, 2011

CONTENTS

Use of High Molecular Weight Biopolymers to Improve the Properties of Chrome-free Leather	353
<i>by M. TAYLOR, J. LEE, L. BUMANLAG AND E. BROWN</i>	
An Innovative New Application of Oxidizing Agents to Accelerate Chamois Leather Tanning. Part I: The effects of oxidizing agents on chamois leather quality	360
<i>by O. SUPARNO, E. GUMBIRA-SA'ID, I. KARTIKA, MUSLICH AND S. MUBARAK</i>	
Quantitative Determination of Enzymatic and Chemical Dehairing of Skins by an Electronic Force Sensor	367
<i>by A. ZENGIN, B. BITLISLI AND N. ERIKSEN</i>	
Examination of Gram Positive Bacteria on Salt-Pack Cured Hides	372
<i>by E. ASLAN AND M. BIRBIR</i>	
Lifelines	381
ALCA and Industry News	
Call for papers for the 108th Annual Meeting, June 7-10, 2012	382
Council Conference Call Minutes, October 11, 2012	383
Author Index for Volume 106	387

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

ANDREAS W. RHEIN, *President*

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

STEVEN GILBERG, *Vice-President*

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

STEVE LANGE, *Vice-President Elect*

GST AutoLeather, Inc.
31601 Industrial Road
Livonia, MI 48150

COUNCIL

Michael Bley

Eagle Ottawa LLC
2930 Auburn Road
Rochester Hills, MI 48309

Sarah Drayna

LANXESS Corporation
4895 S. Courtland Pkwy.
New Berlin, WI 53151

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

John Rodden

Union Specialties, Inc.
3 Malcolm Hoyt Drive
Newburyport, MA 01950

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

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, C.G. KEYSER

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