

LIFE LINES

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R.Ramesh, see *JALCA* **100**, 243, 2005

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B.Ramanaiah, see *JALCA* **100**, 354, 2005

N. K.Chandra Babu, see *JALCA* **100**, 243, 2005

Josef Hrnčirik, see *JALCA* **100**, 29, 2005

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Jan Kupec, see *JALCA* **97**, 369, 2002

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Renee J. Latona, see *JALCA* **100**, 396, 2005

William N. Marmer, see *JALCA* **93**, 328, 1998

Alois Puentener, gained his experience and qualification during a three year apprenticeship in textile and leather manufacturing, after which he graduated in Textile Engineering at Reutlingen, Germany. He received his Doctorate in 1977 from the University of Stuttgart. He worked for Ciba-Geigy AG, Basel, Switzerland in the Dyestuffs and Chemicals Division in the parent company location as well as abroad. In 1996 TFL was founded when Ciba-Geigy's leather business unit merged with the leather departments of Rohm and Stockhausen. Today he is with Huntsman, a global USA manufacturer and marketer of differentiated chemicals. Its operating companies manufacture products for a variety of global industries, including chemicals, plastics, automotive, aviation, textiles, footwear, paints and coatings, construction, technology, agriculture, health care, detergent, personal care, furniture, appliances and packaging. This Journal manuscript was presented as a representative of the Association of Swiss Leather Chemists and Technologists (VESLIC).

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NOTE FROM THE *JOURNAL* EDITOR

Dear Readers,

This has been an especially exhilarating year for this Editor. The XXIX IULTC Congress/103rd Annual Meeting in Washington DC this past June was an exciting event. I greatly appreciated meeting so many authors and presenters from all parts of the globe. You will notice that we have already publishing some of these presentations in the *Journal* with more to come in the months ahead.

I want to remind all readers to remember to use our web page, leatherchemists.org/publications, to search for subject matter and useful information. The simple entry of a "Key Word(s)" will quickly provide a listing of all related titles and authors' since the beginning of *JALCA*. Abstracts are reproduced on this web page for all manuscripts since Volume 94, 1999. You can request a complete manuscript by contacting the *Journal* Editor or our Association office.

I want to encourage your comments and suggestions about how to make the *Journal* more useful resource for you.

Thank you for your continuing support,

Robert F. White
Journal Editor

ABSTRACTS

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Method for producing starch/phenols copolymer-type green leather tanning agent. Lu, Shenghua; Li, Fang. (Shaanxi University of Science and Technology, Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu (2007), CN 101012486 A 20070808 Patent written in Chinese. CN 1001-7270 20070123. AN 2007:897725 The title method comprises the steps of: (1) prepare maple enzyme solution with horseradish peroxidase (relative mol. wt. = 40,000,250U/mg) and deionized water at an equal wt. ratio, and storing at 4deg.C, (2) adding maize starch and hydrogen dioxide to 10-15% and 1-3% resp., heating to 90-95deg.C, standing for 1-2h, cooling to 40 50deg.C, and adjusting pH to 5.0-6.0 with sodium hydroxide soln., and (3) adding phenol and to 5-10% and 8-10% resp., adding 1-2wt.% enzyme soln. at 40-50deg.C, reacting for 2-3h, and adjusting pH to 6.0-6.5 to obtain the final product. The method has the advantages of environmental-friendly tanning agent, and fine tanning effect.

Use of ultrasound in chrome recovery process in leather industry. Sivakumar, V.; Verma, V. Ravi; Swaminathan, G.; Rao, P. G. Chemical Engineering Division, Central Leather Research Institute, Chennai, India. *Journal of Scientific & Industrial Research* (2007), **66**(7), 545-549. Publisher: National Institute of Science Communication and Information Resources, ISSN: 0022-4456. Journal written in English. AN 2007:892104 In this study, the influence of ultrasound on the stoichiometric use of pptg. agent magnesium oxide, (MgO) as an alkali in the recovery of chrome from the spent tanning liquors has been studied. The use of MgO in chrome recovery assists settling characteristics but suffers from low soly. and reactivity. A significant improvement (3-fold) is observed in settling rate of chromic hydroxide ppt. with the use of pre-sonicated MgO as compared to control (no sonication). A considerable decrease of Cr in the supernatant liquor after pptn. suggests better recovery due to better dispersion and particle-size reduction of MgO in water due to sonication. No appreciable improvement with sonicated sodium carbonate soln. prior to chrome recovery may be due to sodium carbonate itself is highly water sol. in comparison to MgO.

Coated leather buffing machine. Wang, Haizhi; Li, Haoyu. (Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu (2007), CN 101008040 A 20070801 Patent written in Chinese. CN 1006-3189 20070130 AN 2007:858321. In the title machine, a grinding wheel is horizontally arranged on the chassis; rotor spindle for the grinding wheel is rotatable supported by bearings at both ends, and is connected with transmission gear; a hinder roller is arranged under the grinding wheel, and has rotor spindle rotatable supported by notched sticks at both ends; vertical guide tracks are respectively connected to lower ends of the notched sticks; guide track seats are connected to the lower parts of the vertical guide tracks; link rod is connected between the two

vertical guide tracks, and has middle part hinged with frontend of a lever; pedal board is connected to rear end of the lever; and air nozzle is arranged under the grinding wheel for jetting air to middle part of the grinding wheel. The invention has advantage of simple structure, easy operation, and good buffing performance.

Purification and characterization of two novel extra cellular proteases from *Serratia rubidaea*. Doddapaneni, Kiran Kumar; Tatineni, Radhika; Vellanki, Ravi Nagaraj; Gandu, Bharat; Panyala, Nagender Reddy; Chakali, Balumaddileti; Mangamoori, Lakshmi Narasu. Centre for Biotechnology, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh, India. *Process Biochemistry* (Amsterdam, Netherlands) (2007), **42**(8), 1229-1236. ISSN: 1359-5113. AN 2007:828002 A protease, producing bacterial culture (isolate C) was obtained from slaughterhouse waste samples, Hyderabad, India. It was related to *Serratia rubidaea* on the basis of 16S r RNA gene sequencing and biochemical properties. Cultural characters of *S. rubidaea* identified it as a psychrophile secreting protease at 10-30 oC. Single step purification of culture supernatant on sephacryl S-100 column revealed two proteases CP-1 and CP-2. The mol. masses of the enzymes detected by SDS-PAGE and zymog. were approx. 97 and 45 kDa, resp. N-terminal sequencing of CP-1 revealed a novel surface protein of *S. rubidaea* and CP-2 protease has shown 100% homol. with protease of *Serratia* sp. A fold purification of 1.5 with 54% recovery was achieved in CP1 and purifn. of CP-2 resulted in 88% yield with a fold purification of 2. The optimum pH values of CP-1 and CP-2 were shown to be 10 and 8, resp. The max. activities for the enzymes were at 40 oC and 30 oC. Both the proteases are inhibited by EDTA indicating that they are metallo proteases. The activity of CP-1 was enhanced with Cu²⁺ that of CP-2 was enhanced with Zn²⁺ and Ca²⁺. These proteases have stability in presence of detergents, surfactants and solvents. These properties make these proteases an ideal choice for application in detergent formulations, food, leather industries, vaccine and enzyme peptide synthesis.

Recycling of reclaimed tannery wastewater for use in pickling and chrome-tanning. Wang, Kunyu; Liu, Shu; Ju, Haiyan. Key Laboratory of Leather Chemistry and Engineering, Sichuan University, Ministry of Education, Chengdu, Peop. Rep. China. *Journal of the Society of Leather Technologists and Chemists* (2007), **91**(3), 128-131. ISSN: 0144-0322. AN 2007:823209. The reclaimed-water used for this study was the integrated treated tannery wastewater meeting the requirements specified in GB8978-1996 (GB8978-1996 is the Integrated Wastewater Discharge Std. promulgated by People's Republic of China - see appendix). The influences of the contents of Ca²⁺, Mg²⁺ and NaCl along with the feasibility of recycling reclaimed-water for pickling and chrome-tanning were studied. The orthogonal and pilot expts. using split glabered pigskins have demonstrated that, when the contents of Ca²⁺ and Mg²⁺ in the float reached 80mg/L and 30mg/L resp. there were no obvious influences on pickling and chrome tanning. However, when the level of NaCl reached 90 g/L, there was an adverse influence on the rate of chrome exhaustion. The trend of the influences of Ca²⁺, Mg²⁺ and NaCl on pickling and chrome-tanning was: NaCl>Mg²⁺>Ca²⁺. The rates of chrome exhaustion and the shrinkage temp. of the leathers tanned using the reclaimed-water were 97% and 103.7deg.C resp. The phys. and mech. properties of these leathers were better than for the controls. The results suggested a potential for recycling reclaimed-water for pickling and chrome tanning of the split pigskin.

CALL FOR PAPERS FOR THE 104TH ANNUAL MEETING OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION JUNE 19-22, 2008

If you have recently completed or will shortly be completing research studies relevant to hide preservation, hide and leather defects, leather manufacturing technology, new product development, tannery equipment development, leather properties and specifications, tannery environmental management, or other related subjects, you are encouraged to present the results of this research at the next annual meeting of the Association to be held at the Grandover Resort and Convention Center, Greensboro, NC June 19-22, 2008.

Abstracts must be submitted by January 31, 2008 to the Chair of the Technical program:

Mr. Stephen S. Yanek

c/o Seton Company

30445 NORTHWESTERN HIGHWAY., SUITE 255

FARMINGTON HILLS, MI 48334

E-mail: Stephen.yanek@setonco.com

Each abstract should begin with the title in capital letters, followed by the authors' names. The name of the speaker should be denoted by an asterisk, and contact information should be provided that includes an e-mail address. The abstract should be no longer than 300 English words and preferably furnished as a Microsoft Word or Adobe PDF document.

Manuscripts based on the presentation, in publication-ready form, are expected by May 15, 2008. They should be sent in electronic format (either as an email attachment or on a CD-R) by that date to:

Robert F. White

Journal Editor

THE AMERICAN LEATHER CHEMISTS ASSOCIATION

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Presentation at the convention will be limited to 25 minutes. In accordance with the Association Bylaws, papers covering such presentations are to be submitted to the *Journal of the American Leather Chemists Association* for publication consideration. Those papers are not to be published elsewhere, other than in abstract form, without permission of the *Journal* Editor, Robert F. White.

AMERICAN LEATHER CHEMISTS ASSOCIATION 2008 MEETINGS OF THE RESEARCH LIAISON COMMITTEE AND THE RAWSTOCK COMMITTEE

USDA, ARS, EASTERN REGIONAL RESEARCH CENTER, WYNDMOOR, PA

Dates: Tuesday April 29th (beginning at 8:30 AM) - Wednesday April 30th, 2008 (finishing at 12 Noon)

The ALCA RLC, which liaises with the Fats, Oils and Animal Coproducts Research Unit of the USDA's Agricultural Research Service, serves a vital role to assist the USDA in aligning projects and research to meet industry needs.

The Research Liaison Committee meets twice a year, once in April at the USDA Eastern Regional Research Center and then during the ALCA annual convention in June to review industry trends and requirements. The RLC works in tandem with the ALCA Rawstock Committee to identify immediate and long term needs of the industry. Membership to both committees is open to those affiliated with leather manufacture.

Topics typically covered include:

- o A global update on issues pertaining to the hide & leather industry (USHSLA)
- o Reports from the Rawstock Committee - defects, processing issues, brand identification, contamination intervention on carcasses
- o Reports on research being conducted at Texas Tech University
- o Reports from ERRC from hides and leather program covering such areas as pretanning, physical properties of leather, alternative tannages, byproduct utilization and finishing, leather quality (UV resistance) and non-destructive testing.



For further information contact Dean Didato at (901)272-8408 or dtdidato@buckman.com