

FRUIT PROCESSING

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Filling Technology
Market Price Report
Process Technology
Packaging Technology
Science & Research

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**Energy-efficient grinding of plant-based
supermarket waste as a substrate
for the biogas process**

PROCESS TECHNOLOGY

San Pellegrino turns to Sidel to increase performance, hygiene and production capacity 78



Sidel has supplied two Sidel Matrix™ Combis to the Sanpellegrino plant in Ruspino, Italy, to help increase production capacity of its famous sparkling mineral water. Sidel Matrix is the most powerful solution to date in terms of performance, flexibility, cost savings and sustainability. Over the past few years, the global market in bottled water has grown significantly primarily due to the increasing worldwide demand for premium, healthier drinks ...

SCIENCE & RESEARCH

Heiko Rischer, Emilia Nordlund

Tasty superfood from plant cell cultures 82

VTT Technical Research Centre of Finland is developing a new and promising method of producing healthy and tasty plant-based food through plant cell culture (PCC) technology rather than field cultivation. The development work was elevated to a whole new level by a study on the nutritional properties of PCCs grown from cloudberry, lingonberry and stoneberry. Their nutritional value was proven to be much higher than anticipated, in addition to having a nice sensory profile ...



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Evi BRENNICH

Editorial Office

Editor-in-Chief: Evi BRENNICH
editorial@fruit-processing.com

Editor: Marco BRENNICH
marco.brennich@fruit-processing.com

Advertising

Cornelia HEBBE
cornelia.hebbe@fruit-processing.com

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Christian FRIEDEL
christian.friedel@fruit-processing.com

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confructa medien GmbH
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Address for all Communications:

confructa medien GmbH
FRUIT PROCESSING
Westerwaldstrasse 2a
D-56587 Oberhonnefeld, Germany
phone: +49 (0)2634 9235-0
fax: +49 (0)2634 9235-35
editorial@fruit-processing.com
www.fruit-processing.com

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FILLING TECHNOLOGY

Flexible and low on space: KHS presents innovative block systems for the sensitive range 84

Yoghurt is no longer spooned out of the pot but drunk. Breakfast is no longer just eaten at the kitchen table but also on the hoof. And it should all be as healthy and sustainable as possible. This is one of the reasons why the demand for smoothies, milk and dairy products is steadily growing. KHS now provides its linear aseptic fillers for the bottling of these sensitive products also as a space-saving block system ...



PACKAGING TECHNOLOGY

SIG and Amcor push responsible aluminium sourcing further 86

Following its responsibility approach entitled WAY BEYOND GOOD, SIG is committed to sourcing 100 % of its direct materials from only certified sources. Working together with value chain partner Amcor, the partnership aims to assure that the aluminium foil supply chain is working towards the performance standard of the Aluminium Stewardship Initiative (ASI). Amcor, a global leader in responsible packaging, is one of SIG's main suppliers for aluminium in Europe ...

SCIENCE & RESEARCH

Michael Frankl, Dr Michael Menner, Mikael Tekneyan

Energy-efficient grinding of plant-based supermarket waste as a substrate for the biogas process 88

Plant-based supermarket waste (fruit, vegetables, salads, cut flowers, etc.) along with suitable cleaning and peeling waste from supermarkets, along with general waste from the food industry, occur in annual quantities of several hundred thousand tonnes in Germany. In most cases, this waste fraction is virtually free of any impurities. When this waste is not used as animal feed, its recycling has until now mainly been through composting and has therefore tended to involve disposal. This means that a possible energy-related use of this waste is also lost ...

PUMPS

More than standard pumping solutions 96

When it comes to pumps within the food, beverage and dairy industries, SPX FLOW, Inc. has an impressive brand history. The company's success is based on in-depth understanding of sanitary applications, industry-leading knowledge of how to best select pumps for optimum performance, years of proven applications and an ongoing commitment to excellence in customer service ...

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