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smagua  
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24 Sal3n internacional del agua y del riego  
International water and irrigation exhibition

# TECHNICAL INNOVATIONS COMPETITION



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## EVALUATING JURY



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## PRESENTATION



SMAGUA 2019 is conceived as set of first-class tools to enhance the competitiveness of businesses, to present all of the market's innovations, to offer a forum of debate on issues of interest to today's professionals, to bring together the activities of the different sector associations and, in short, to be a driving force for the development of all companies involved in the water and irrigation industry.

In 2019 we are celebrating the 24<sup>th</sup> Smagua Show which marks 45 years of support for this industry.

## COMPETITION PRESENTATION

The purpose of the Technical Innovations Competition is to acknowledge products developed by companies in the industry that invest in R+D+I, selecting products that stand out in terms for their contribution to technology, innovation and results in terms of meeting market needs.

The competition's independent jury is formed by exceptional industry professionals and the "Technological Innovation" or "Outstanding Technological Innovation" award is, without doubt, an acknowledgement of exemplary work.

The competition is open to all show exhibitors and the deadline for presenting candidatures ended at 23:59 h, 23<sup>rd</sup> November 2018.



The meeting of the Evaluating Jury to make known its decisions, was held on 11th December 2018

## MEETING OF THE EVALUATING JURY

The meeting began at 10 a.m. with a brief welcome to the Evaluating Jury by the Managing Director of Zaragoza Exhibition Centre, who also took the opportunity to thank the members of the jury for their presence at this second meeting. After the departure of the Managing Director of Zaragoza Exhibition Centre, the jury proceeded to discuss the candidatures presented, following the same procedure in each case: first reading the details provided on the competition registration form and then examining the documentation required in point 5 of the competition rules and regulations.

When studying the award candidatures the Evaluating Jury considered the different aspects to be taken into account for rating the various evaluation criteria.

The Jury's extensive professional experience along with the theoretical and practical knowledge of its members gave rise to a series of observations in regard to the finalists which were taken into account in their award decisions.

## THE EVALUATING JURY'S DECISION

The high standard of the candidatures presented and the success of the competition in terms of the number of entries has been a positive stimulus for the Evaluating Jury and the competition organizers.

Taking into account the purpose of the competition, the characteristics of the candidates and the documentation provided, the Evaluating Jury decided on the following award winners:



Each criterion is evaluated and rated separately.

All of the products are studied based on these criteria.





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## OUTSTANDING TECHNICAL INNOVATION



**EQUIPOS MÓVILES DE CAMPAÑA ARPA, S.A.**  
(Zaragoza / Spain)



### “ARPO-6”

A water treatment plant for all types of water (including sea water). Low-maintenance, simple to operate, runs on a solar energy system, generates chlorine autonomously and can be transported by any means of land, sea or air transport.



**BERMAD EUROPE, S.L.**  
(Barcelona / Spain)



### “SMART HYDROMETER”

The Smart hydrometer offers a solution for all types of consumers, to replace and improve on traditional hydrometers. It provides simple, reliable irrigation by times or volume. The Bermad smart hydrometer is fitted with an electronic recorder that actuates a solenoid valve by Bluetooth to open or close the valve as required.



**CONTAZARA, S.A.**  
(Zaragoza / Spain)



**“NB-IOT REMOTE WATER METER READING DEVICE”**

The NB-IoT remote reading device developed by Contazara is designed to read a bank of water meters and to transmit the information via the Narrowband (Internet of things) communications protocol.



**SAINT-GOBAIN PAM ESPAÑA, S.A.**  
(Madrid / Spain)



**“NEW RANGE OF BLUTOP MONOBLOC GASKETS”**

The range of monobloc gaskets is a new version of double-strength gaskets in 100% EPDM material for pipe diameters of 70/90/110/125/140/160 mm, totally compatible with drinking water (all component materials have DHW health conformity certificates). Gaskets in bolted and non-bolted versions with metal inserts embedded in the EPDM for bolted attachment of the pipe and to prevent the different elements from becoming unattached in the event of overpressure or steep gradients.



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### TECHNICAL INNOVATION



**BELGICAST INTERNACIONAL, S.A.U.**  
(Vizcaya / Spain)



#### “ULTRAF: CONTROL VALVE WITH INTEGRATED FLOW METER”

ULTRAF is an automatic control valve with an integrated ultrasonic flow meter powered by a battery with a 10 year operating autonomy. It has several functions, among which, are irrigation control with a calendar programmer to programme either by irrigation time or by the volume transferred, management of pressure in supply networks, tank filling control, control of pumping stations and fire fighting systems. In addition, its control and configuration is carried out by mobile app for iOS and Android.



**BURKERT IBÉRICA, S.A.U.**  
(Barcelona / Spain)



#### “8905 ONLINE ANALYTICAL SYSTEM”

System for analyzing the physical-chemical parameters of water using MEMS (micro electro mechanical systems) technology, including the monitoring and retransmission of analytical data. Analyses are available for: pH, conductivity, ORP, chlorine, turbidity, and iron. Analyses for hardness and TOC are currently under development.





**FLOTTWEG SE**  
(Vilsbiburg/ Germany)



**“XELLETOR”**



The Flottweg Xellektor is a system that enables use of the essential characteristic feature of the machine, that is, the combination of a centrifugal rotor and auger. A new sludge processing system thanks to the new auger design of the Xellektor series provides a mechanical separation process that is even more efficient thanks to the open grid structure, for dewatering sludge in water treatment plants, reducing the amount of sludge to be disposed of.



**GRUPO MEJORAS**  
(Madrid / Spain)



**“AKWAMETRIC”**



The akwaMetric is an autonomous unit for multi-parameter monitoring of water quality in drinking water distribution systems. It is a totally flexible modular platform, also providing pressure and flow data as well as pressure transients, enabling quality control of mains water and improved control of hydraulic sectors using one single unit.



**INSTRUMENTACIÓN ANALÍTICA, S.A.**  
(Madrid / Spain)



**“FLOW-TRACKER 2”**



The portable Acoustic Doppler Velocimeter (ADV) SonTek FlowTracker2, is a modern-designed device for measuring velocity, bathymetry and single flow rates, for use in a wide variety of natural and man-made channels, complying with the ISO 748 standard.



**INSTRUMENTACIÓN ANALÍTICA, S.A.**  
(Madrid / Spain)



**“YSI I3XO ECOMAPPER AUV”**



Autonomous underwater vehicle that can submerge to a depth of 100 m, measuring and storing water quality parameters: pH, conductivity, temperature, oxygen, turbidity, total algae: chlorophyll+phycocyanin and FDOM.



**IVERNA 2000, S.L.**  
(Zaragoza / Spain)



#### “SUGARPOD”

SUGARPOD filters are a simple, effective solution to eliminate all types of odours, particularly at wastewater holding ponds, pumping stations, water treatment plants and cesspools. Each SUGARPOD filter comprises a casing in HDPE, PE or stainless steel that is resistant to external factors and a high-quality active charcoal impregnated filter cartridge, specially selected to eliminate chemical compounds such as H<sub>2</sub>S, SO<sub>2</sub>, NH<sub>3</sub>, etc... The cartridge is housed inside a specially adjusted polyamide mesh which guarantees correct usage for several years.

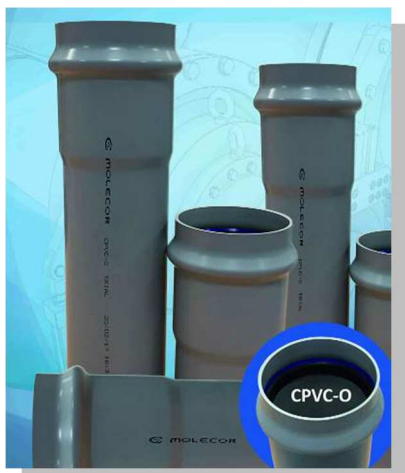
**kamstrup**

**KAMSTRUP A/S (SPANISH BRANCH)**  
(Madrid / Spain)



#### “KAMSTRUP VALVE”

A shutoff valve with Smart technology to control the water supply to consumers. It can be used to cut off the water supply to consumers due to non-payment of bills or if the water supply has to be cut off for a period of time. It can be controlled remotely. Users can open, close or throttle the valve via a mobile app.



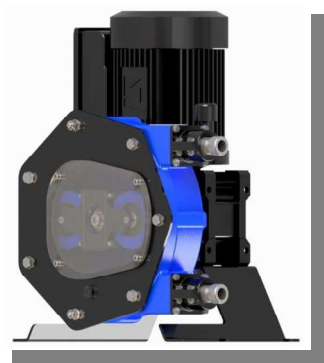
**MOLECOR TECNOLOGÍA, S.A.**  
(Madrid / Spain)



**“CPVC-O PIPES”**

A totally innovative material: CPVC-O (oriented chlorinated polyvinyl chloride).

By applying the principles of molecular orientation to CPVC, the resulting product has all of the advantages of traditional O-PVC pipes but with the increased resistance to high temperatures that CPVC pipes currently have. This allows development of a product range of superior characteristics and greater advantages as well as the possibility of extending the current range of diameters.

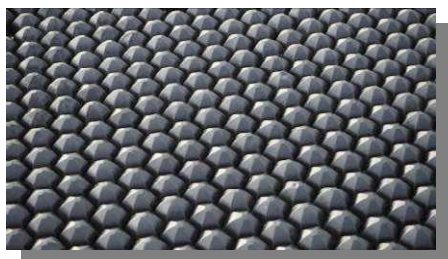


**PERIBEST PUMPS, S.L.**  
(Balearic Islands / Spain)



**“HEAVY-DUTY INDUSTRIAL PERISTALTIC PUMPS WITH XXL ROLLERS”**

Industrial peristaltic pumps design for high-demand applications (continuous 24/7 use) with robustly designed XXL rollers, overdimensioned bearings, cutting-edge rectified hose with very tightly adjusted tolerances and minimum use of lubricants.



## PLASTICUERO, S.L.U. – FLOATING HONEYCOMB



(Alicante / Spain)

### “HEXABALLS”

System for covering liquid masses, formed by hexagonal spheres made of high density polyethylene.

It provides solutions to evaporation (reducing evaporation up to 70%). It also reduces algae and controls odours as well as reducing the use of electricity and chemical products.



## RADIOPOINT SYSTEMS, S.L.



(Madrid / Spain)

### “E-SAFE UNIVERSAL UNDERGROUND UTILITIES DETECTOR”

Portable system to detect all types of underground utilities and pipelines, with estimation of depths.

Using geo-radar techniques, this equipment performs real-time, user-friendly data processing. The colour code system enables underground utilities to be easily located.



**SAINT-GOBAIN PAM ESPAÑA, S.A.**

**(Madrid / Spain)**



**“NGL RING FLOW CONTROL VALVE”**

New generation (NGL) control valve for regulating pressure and/or flow, with a ring section flow geometry, DN 100 to DN 1400 and PN 10/16 and 25, apt for drinking water and irrigation markets.



**SAINT-GOBAIN PAM ESPAÑA, S.A.**

**(Madrid / Spain)**



**“REXESS 2: NEW D400 CLASS HIGHWAY MANHOLE COVERS FOR AVERAGE VOLUME TRAFFIC.”**

The new REXESS 2 is a D400 class manhole cover for average volume traffic which adds an easy, ergonomic opening feature to the safety and reliability of Saint-Gobain PAM’s ductile cast iron manhole covers.

**SISTEMES ELECTRONICS  
PROGRES, S.A.**



**SISTEMES ELECTRONICS PROGRES, S.A.**  
(Lleida / Spain)



**“ONE-STOP SOLUTION FOR IRRIGATION CONTROL”**

Sensors connected to the programmers collect data on the state of the plant, soil, climate and consumptions and transfer them to the cloud with the data from the API's and remote sensing.

Management tools allow access to this information that is processed and displayed by status graphs, interactive maps, detailed records, etc.

Via a computer, tablet or mobile phone, users can consult the state of the installation, analyze it and adjust the amount of water and fertilizer according to crop needs.

**UR-cast<sup>o</sup>**  
Water Fittings



**UR-CAST WATER FITTINGS, S.L.**  
(Álava / Spain)



**“UR-41: CLAMP TO REPAIR POLYETHYLENE PIPES AT JOINTS”**

The clamp rapidly and permanently repairs leaks that occur at the connection points of pipes (joined by butt welding or by electro-welded sleeves) on polyethylene pipes, without having to cut off the water flow.

## AWARDS CEREMONY



The Awards Ceremony for the winners of the “Technical Innovation” and “Outstanding Technical Innovation” awards categories will take place at Zaragoza Exhibition Centre (Feria de Zaragoza) at A-2 Km 311 – 50012 Zaragoza.

The ceremony will be held on the second day of the **SMAGUA** show, in the afternoon/evening.

Winners will be notified the exact time in the official invitation to the Awards Ceremony.



Representatives of Zaragoza Exhibition Centre, all of the Jury members, civil authorities, institutional authorities, academics and industry media will be present at the ceremony.

## FORTHCOMING EVENT



**Next event 2021**

Following the success of this year’s event and considering the positive impact that the Technical Innovations Competition has had within the trade fair sector, the Award organisers and Evaluating Jury have decided to convene the next event for 2021.

All the details of the forthcoming event will be disclosed at the Awards Ceremony for the winners of the “Technical Innovation” and “Outstanding Technical Innovation” competition.

For all of those interested, more detailed information on the event is available at [www.smagua.es](http://www.smagua.es)