



PRESS RELEASE

WORLD NUCLEAR EXHIBITION 2021

WNE announces the nominees for the WNE Awards 2021

Paris, 10 November 2021 –WNE – the world’s largest civil nuclear exhibition, chaired by Sylvie Bermann, Ambassador of France and President of WNE –announced the names of the 21 companies, big groups and SMEs/VSEs, which have been shortlisted for the WNE Awards 2021.

The 21 nominees were selected by four juries composed of the world's leading experts in the civil nuclear industry in four categories: **Operational Excellence, Skills and Knowledge Management, Products and Services, and Nuclear Safety.**

This 2021 edition of the WNE Awards has attracted exceptional interest with **137 high quality projects submitted by 84 exhibiting companies** (41% VSE/SME, 59% large groups) from the main markets of the civil nuclear industry (France, Russia, Great Britain, Germany, United States, Canada, ...). The enthusiastic support of WNE 2021 exhibitors makes this new edition of the WNE Awards a truly unique and unmissable event for the entire civil nuclear sector and a key event of WNE.

The Products and Services category received the largest number of entries, with 55.5% of projects ahead of the other three categories (16% Operational Excellence, 13.9% Skills and Knowledge Management, 14.6% Nuclear Safety).

WNE Awards 2021 juries:

The four juries in charge of selecting the nominees for each category are chaired by international experts in the civil nuclear industry:

- Véronica Garea, President of Fundación INVAP (Nuclear Safety category) ;
- Mary Alice Hayward, Principal of Hayward Consulting (Skills and Knowledge Management category) ;
- Patrick Landais, High Commissioner for Atomic Energy at CEA (Products and Services category) ;
- Daniella Lulache, Head of the OECD-NEA Policy and Coordination Office (Operational Excellence category).

Nominees 2021 by category

■ OPERATIONAL EXCELLENCE CATEGORY

Big group & Mid-cap

DASSAULT SYSTÈMES, “3DEXPERIENCE - Plant Conformance and Quality”

The solution is a web-based collaborative platform, allowing inspection bodies, manufacturers and regulators to manage the following processes: data & document review, findings, audits and inspections. The solution has been adopted by ESPN Digital project to manage the conformity assessment of French Nuclear Pressurized Equipments.

EDF, “Stop Corrosion”

To stop corrosion of the alternator hollow bar, operators used to change the characteristics of cooling water from neutral to alkaline pH. However, it induces expensive component modifications. EDF developed a simple solution, avoiding modification: replace the original ion exchange resin by a new one able to change the pH of the water.

NORD LOCK GROUP, “HYDRAULIC CLOSURE SYSTEMS”

Hydraulic closure system is essentially a series of Hydraulic Nuts, a network of Hydraulic Hoses and Ancillaries, and an Air Driven Pump. It provides a temporary joint closure solution during maintenance outages – improving our customers’ operational performances.

SMEs and VSEs

MONTEIRO, “CRYOCONTROL”

The CryoControl® is a fully comprehensive system managing the formation of ice plugs also known as pipefreezing in the industrial maintenance word. This system has been developed to take into account the specificity of the pipe receiving the freeze, the site and its level of safety while addressing the needs for quality control and traceability.

OAKRIDGE SAS, “NESTERS – Nuclear Ex-core inStrumentation sysTEm (Rpn) System App.”

NESTERS is a tailor-made app, based on a data-centric approach. It dramatically eases the management of the multi-year maintenance program of the RPN (nuclear ex-core instrumentation) system, by gathering and displaying in real-time the accurate data from multiple sources. It also gives a seamless experience to the end-users.

SITEFLOW, “Siteflow”

Siteflow is the first cloud-based Field Service Management Solution dedicated to the nuclear industry. Around our Web App and our Mobile App, companies are achieving their full digital transformation while respecting high quality requirements, making it the first solution used by a subcontractor of EDF (case 1) on French nuclear sites.

■ SKILLS AND KNOWLEDGE MANAGEMENT CATEGORY

Big group & Mid-cap

CEA, the French alternative energies and atomic energy commission, “Create Your MOOK”

This innovative Knowledge Management methodology carried out on ASTRID, a Gen IV Reactor project, is based on a series of expert interviews and video recordings, transformed into a “MOOK” (Management of Organized Online Knowledge), considered as a data-rich content. Team has capitalized on a 10-year project and synthesized the knowledge thanks to 120 MOOKs.

ORANO GROUP, “COOC (Corporate Online Open Course): Orano Nuclear Fuel Cycle Process”

Our experts have synthesized their knowledge and technical skills into a series of 20-minutes digital formats in order to share this knowledge capital with the group's employees in France (12,000 people). Each module is structured in 3 parts:- the scientific phenomena in play; how to implement them; operating feedback through our industrial experience.

ROSATOM CORPORATE ACADEMY, “Rosatom for Rosatom knowledge transfer project”

Stimulation and support of additional training activities of employees in addition to their main responsibilities through individual and mass training, the provision of technical resources, as well as the promotion of the project and the results of the participants' work.

SMEs and VSEs

After careful consideration, the jury decided that this year no nominations will be made for SMEs and VSEs due to the difficulty of scoring and judging against the criteria.

■ **PRODUCTS AND SERVICES CATEGORY**

Big group & Mid-cap

BERTIN TECHNOLOGIES, “SaphyGATE GN - Radiation portal monitor for Special Nuclear Materials detection”

Developed with the French Alternative Energies & Atomic Energy Commission (CEA), the 3He-free SaphyGATE GN is a radiation portal monitor for Gamma-Neutron detection & discrimination, able to automatically & non-invasively spot Special Nuclear Materials using plastic scintillation detectors only. It is thus ideal for access control of critical sites.

FRAMATOME, “QuarTec Coating Technology”

QuarTec, an innovative coating technology protecting power plant assets exposed to contaminants, corrosion, & aquatic growth. Reported Utility cost savings support quick ROI. QuarTec enables maintenance cost savings & reduces dose/contamination impacts contributing to power plant performance while complying with environmental standards.

VEOLIA NUCLEAR SOLUTIONS, “Treatment of Problematic Nuclear Waste Streams - GeoMelt® Vitrification of Reactive Metals”

Battelle Energy Alliance, operator of the Idaho National Lab for the DoE (USA), contracted VNS to treat reactive sodium contaminated waste. The waste consisted of 55-gallon drums (208L) contaminated with residual radioactive sodium. GeoMelt® proved to be an effective treatment method for this problematic waste stream.

SMEs and VSEs

AVNIR ENERGY, “SK-DIZI (Surveillance System for Ionized Zones)”

SK-DIZI consists in a product innovation as it is a lightweight, compact and robust radioactivity detector specifically designed to be embedded on the autonomous AZUR DRONES SKEYETECH drone, as opposed to the heavy detectors currently used to control potentially radioactive zones that need to be loaded on a helicopter.

HAPTION, “Tele Robotics”

Tele Robotics is the ability to remotely control the manipulator in a hotcell via a master arm with force control. We supply a force feedback system for the master arm. The name of the product is Virtuose 6D TAO and a part of the control system.

SILÉANE, “Kamido: The robotics solution to sort and quantify legacy nuclear waste”

This system is a disruptive solution to automate the recovery & conditioning of legacy nuclear wastes. It automatically separates the waste item by item, identifies the type of waste, quantifies magnesium, removes aluminium, conditions the waste into drums, without exceeding a maximal quantity of mg inside the drum to prevent H2 effusions.

■ **NUCLEAR SAFETY CATEGORY**

Big group & Mid-cap

DOOSAN BABCOCK, “Development of a Phased Array Ultrasonic Inspection process for Sizewell B (SZB) Dry Fuel Store Multi-Purpose Canister Lid-to-Shell Welds”

A new NDT inspection system was required to support the 100 year design life criteria of the Multi-Purpose Canisters (MPC) for use in the SZB Dry Fuel Store. A fully qualified Phased Array Ultrasonic Testing system was developed for this specific application, deployed successfully and its application is now part of the MPC storage process.

EDF, “Radiation protection shells”

The innovation reduces radiations around the radiological inspection zone for welded join, increases safety and workers’ security and improves the co-activities management. Thanks to a radiation attenuator and absorbing shells: no weak line, reliable boundaries zone delimitation, reduced collective dose, optimized co-activities of adjacent work sites.

ORANO Group – CEA, “A new therapeutic approach for the decorporation of transuranium radionuclides using inhaled DTPA”

Orano and CEA have been developing an ease-of-use medical therapy based on the nebulization of DTPA aerosols to complete the current medical therapy (intravenous perfusion) and provide patients with a more efficient treatment for the most frequent and severe routes of internal contamination by transuranium radionuclides, inhalation and wound.

SMEs and VSEs

ASVAD INTL. SL, “ASVAD, the valve to achieve nitrogen-free reactors”

The ASVAD Valve is a passive & automatic valve to avoid the nitrogen injection from the accumulators. Installed in the accumulator’s nitrogen side, it will wait fully closed until needed. Only during the accident, and just when the accumulator gets depleted, the valve will act. Once opened, all the residual nitrogen goes to the containment.

CATHELAIN and co-applicants, “C-Bolt”

C-Bolt is intended to control the durability of the safety fasteners, the integrity of the tightening process which requires monitoring. The concept is to integrate to the fasteners (screws, stud bolts and other threaded elements), a fiber optic sensor by means of a patented process developed in partnership with Op’Sens and FT Mesures.

PIERCAN SAS, “Secure and quick glove change with ejector ring system STIC”

This system has its own secured immobilisation mechanical system for the interchangeable part thanks to the locking crown mounted on the Enclosure Ring and the security ejection barrel. The STIC system was developed to improve user safety and protection, improve ease of use, and reduce costs.

WNE congratulates the 21 nominees, both large groups and small businesses, who have distinguished themselves in their category. Each of them embodies the excellence of the civil nuclear industry, expertise and technological innovation in their field.

**Come to the WNE Awards ceremony on Tuesday 30th of November 2021 at 5pm
to learn who the winners are
(WNE - Panel Discussions Room)**

www.world-nuclear-exhibition.com

Join us #WNE



ABOUT GIFEN : www.gifen.fr

GIFEN is the unique professional trade union from the french nuclear industry gathering Prime contractors, Big companies, Midcaps, SMEs, VSEs and associations covering all types of industrial activities and all areas of civil nuclear power. Gathering approximately 270 members, the objective of GIFEN is to build with its partners the French nuclear industry of tomorrow. GIFEN also aims to promote and develop international relations between the world players in the civil nuclear industry.

To achieve this purpose, GIFEN believes in the WNE (World Nuclear Exhibition) and as owner GIFEN intends to develop it.



About RX France : www.rxglobal.com

RX France manages a portfolio of world-class, French and international face-to-face, virtual and hybrid events covering 20 industry sectors including MIPIM, MAPIC, Batimat, Pollutec, EquipHotel, SITL, IFTM Top Resa, MIPCOM, MIPTV, FIAC, Paris Photo... and many more. RX France's events take place in France, China, India, Italy, Mexico, Russia and the United States.

We serve our clients as we accompany their strategic business development and roll out the best of physical and digital events.

RX France is part of RX (previously Reed Exhibitions).



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