

# New Product Technology Session

The new session called the “New Product Technology Session (NPTS)” was set up to provide a forum for discussion from a technological perspective on the results of products and services as an outlet for technology, with the expectation that it will encourage further technological evolution and contribute to the promotion of related businesses.

NPTS will introduce a wide range of new products, services, manufacturing devices, development tools including software and other new items from technical perspective.

In the technical field handled by SETC, the various products and services are produced around the world every day, and the latest technologies are used to enhance customer value. This session will focus on the technologies that make them possible, and will show the superiority and novelty of functions, performance advantages, and value proposition related to the products and services. Leading to further technological evolution and value creation are expected through this session.

A new venue layout concept called the “Co-Location concept” was adopted in NPTS. By holding this session in the same hall as the exhibition, the participants are able to discuss the content of the presentations at the session while looking at the product itself or the product catalog. It is also expected to promote networking.

## Communication between presenters, exhibitors and all participants

NPTS presentation will be held in the exhibition hall



Discussing about the products or services with the participants of SETC



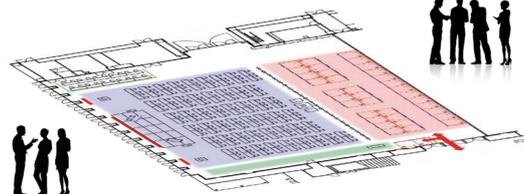
Co-location



Catalog distribution



Interaction between participants and exhibitors



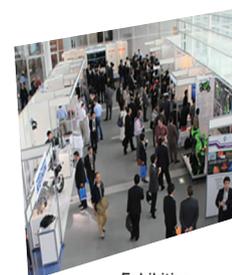
Product Technology



Discussing/Connection



Introduction/Conversation



Exhibition

The scope covered in this session is as follows.

Technology presentation on

- products sold or shortly planned to be sold in the market.
- services provided or shortly planned to be provided in the market using the products.
- manufacturing devices of the products.
- development equipment of the products (e.g., measuring equipment).
- software for development or manufacturing of the products.

Please refer to the document uploaded at the SETC2022 web site (<https://www.setc-jsae.com/npts.html>) for more information.

# New Product Technology Session

(As of April 29, 2022)

## New Product Technology

Organizers: Yuji Araki (Yamaha Motor Co., Ltd.), Maurizio Marcacci (Piaggio & C SpA)

NPT2022-001	<b>Development of Handy Portable Generator, "EU3200i"</b> Hiroshi Koyama, Mitsutoshi Hirata (Honda R&D Co., Ltd.)
NPT2022-002	<b>Development of Titanium-Oxide Heated Exhaust Gas Oxygen Sensor for Advanced Engine Management system in Small Motorcycles</b> Akhilesh Jain (Napino Auto & Electronics Ltd.), Ken Ervin Fossaen (Kerdea Technologies)
NPT2022-003	<b>2021 Model ROV WOLVERINE RMAX2/RMAX4</b> Toshikazu Sugiura (Yamaha Motor Co., Ltd.)
NPT2022-004	<b>Unique Theory of the Operating Engine Simulation to Investigate the Noise/Vibration Mechanism</b> Arata Miyauchi, Masanori Ogawa, Kanno Masatoshi, Taigo Yukisawa (ESTECH Corporation)
NPT2022-005	<b>Development of the FX820V air-cooled V-Twin engine for lawn mowers</b> Kobayashi Yasutaka (Kawasaki Motors, LTD.)
NPT2022-006	<b>Development of 6.1L Diesel Engine V6108 for Tractor in compliance with EU Stage V Non-Road Emission Standards</b> Naoya Junicho (Kubota Corporation)
NPT2022-007	<b>Development of the hybrid powertrain for small scooters in ASIA market</b> Hiroshi Funakoshi (Yamaha Motor Co., Ltd.)
NPT2022-008	<b>New electric propulsion system "HARMO" creates new marine experience</b> Maejima Masaki (Yamaha Motor Co., Ltd.)
NPT2022-009	<b>Introduce of eGX, 2kW class packaged multipurpose electric power unit powered by exchangeable lithium ion battery</b> Shunsuke Sawasaki (Honda R&D Co., Ltd.)
NPT2022-010	<b>New possibility of motorcycles, ships and other applications using new lithium-ion battery SCiB(TM)</b> Kazuhiro Namba, Masahiro Sekino (Toshiba corporation)
NPT2022-011	<b>Development of 2021 MT-09</b> Nobuyuki Miyoshi (Yamaha Motor Co., Ltd.)
NPT2022-012	<b>2.5 kW class NEO'S Electric Scooter with Removable Battery</b> Ryosuke Yamasaki (Yamaha Motor Co., Ltd.)
NPT2022-013	<b>DX for productivity improvement, "Smart Manufacturing Solutions"</b> Kazuhito Ueda (Hexagon)

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NPT2022-014	<b>The Cost Effective 48V Inverter</b> Chihiro Hoshino (Nidec Elesys Corporation)
NPT2022-015	<b>The PRUFREX Motor Management System (MMS-AL) With Model-based Development and Simulink Blockset-library</b> Katharina Liebel, Martin Zappe (PRUFREX Innovative Power Products GmbH)
NPT2022-016	<b>Modelling Gear Manufacture for Efficient Production</b> Michael Fish (Dontyne Systems)
NPT2022-017	<b>Development of NT1100</b> Tasuku Oyama (Honda Motor Co., Ltd.)
NPT2022-018	<b>Development of H'ness CB350</b> Hidetoshi Wakasa (HRC)
NPT2022-019	<b>Development of DAX125</b> Takashi Yagi (Honda Motor Co., Ltd)
NPT2022-020	<b>(Tentative) Development of Hawk11</b> TBD (Honda Motor Co., Ltd.)
NPT2022-021	<b>Styling Design for Gold Wing - Clay Model -</b> Hidekazu Iwata (Honda R&D Co., Ltd.)
NPT2022-022	<b>Energy saving by using hybrid system of heat treatment heat source</b> Tsubasa Mori (Honda Motor Co., Ltd.)
NPT2022-023	<b>Development of tool runout detection function in processing equipment</b> Takuya Kido (Honda Motor Co., Ltd.)
NPT2022-024	<b>(Tentative) Cogeneration system using a biomass gas engine</b> Hiroyuki Otsubo (YANMAR ENERGY SYSTEM CO., LTD.)

## Notes:

The New Product Technology Session papers will NOT be published as JSAE/SAE papers and the paper numbers will be used only for paper identification and management.

The session matrix will be available at the following website in early October.

<https://www.setc-jsae.com/>