



## Aerospace Sector Challenges Addressed at ESIME Ticomán

Through EXPIA, experts discussed topics in operations, maintenance, manufacturing, airport management, and design

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The Instituto Politécnico Nacional (IPN), through the Escuela Superior de Ingeniería Mecánica y Eléctrica (ESIME), Ticomán Unit, hosted the second edition of the Aerospace Engineering Professional Expo (EXPIA) under the theme “La tecnología en la industria actual.” Experts from the aerospace sector shared insights, trends, and academic requirements to meet the challenges of the future.

During the inauguration, IPN's Secretary-General, Mauricio Igor Jasso Zaranda, highlighted that since the launch of the first Aerospace Engineering program in 1937, the IPN has become a benchmark in training high-quality professionals who have significantly contributed to the national aerospace sector's development.

He recalled the contributions of the program's first graduate, Víctor Bravo Ahuja, a pioneer of the aerospace industry in Mexico, as well as the development of unmanned aerial vehicles such as "Chac" and an agricultural aircraft designed collaboratively by the IPN and Airports and Auxiliary Services.

Jasso Zaranda emphasized the importance of a strong connection between the aerospace industry and academia



He noted that the IPN is working to update the curriculum for Aerospace Engineering and is the only higher education institution in Mexico to offer a Meteorological Engineering program, focused on identifying natural phenomena and mitigating risks.

Joined by Alejandro Cardona Seemann, President of Safran Mexico, Jasso Zaranda stated that forums like EXPIA allow participants to explore ideas, trends, challenges, and opportunities in the aerospace industry. “These events also create collaborative spaces where students and graduates can engage with industry-specific activities,” he added.

During the event, attendees had the opportunity to learn about the EMIDSS (Experimental Module for the Iterative Design for Satellite Subsystems, version 5). This module has participated in five stratospheric missions as part of NASA's Scientific Balloon Program. The presentation was led by Dr. Mario Alberto Mendoza Bárcenas, IPN researcher and project leader, who also delivered a keynote lecture on the instrument's evolution throughout its collaborations with the U.S. space agency.