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Secondary Air Systems in Gas Turbine Engines II

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Deadline for manuscript submissions:
closed (31 May 2021)

Message from the Guest Editor

After a successful first Special Issue, this second Special Issue invites papers that address the areas of SAS in gas turbine engines encompassing aviation, power generation, and industrial applications. Secondary air systems (SAS) play a significant role in gas turbine engines to accomplish ensure reliable operation of the whole engine. The main functions of SAS are to provide a cooling flow to engine components, to seal bearing chambers (sumps) and turbine cavities, and finally to control bearing axial loads. Being a functional discipline, SAS owns the airflow that is *not* the primary flow path, essentially.

The second issue addresses novel approaches in flow network modeling, contemporary modeling, and experimental efforts in rotor–stator/rotor–rotor cavities, windage measurements and predictions, advanced flow network modeling to include transient behaviors, advanced sealing technologies, axial load control strategies, rim sealing developments, and sump pressurization aspects.

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Message from the Editor-in-Chief

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