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# Agenda

## Hydraulic Components Simulation Seminar

June 26, 2018

08:30 AM	Welcome and coffee
09:00 AM	Fundamentals of fluid systems
09:45 AM	Scalability approach: from a detailed geometrical view to a functional physical representation
10:30 AM	Component design Hydrostatic pumps: Technologies: piston, vane and gear pumps Technical highlights: stability of the displacement control device, flow oscillations, effects of aeration and cavitation on pump dynamics, etc. Hydraulic valves: Technologies: directional control valves, pressure- and flow-control valves Technical highlights: flow-pressure characteristics, flow and pressure gains, valve stability, etc.
12:30 AM	Lunch

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## Hydraulic Components Simulation Seminar

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13:30 PM

System design – subsystems integration

Off-highway, heavy-machinery and automotive applications

Technologies: hydrostatic transmissions, load sensing principles, regenerative systems, etc.

Technical highlights:

Improvement of hydraulic systems' performances

Energy consumption of the hydraulic systems when interacting with the environment

Integration of control logics from the early beginning of the design cycle

Optimization of NVH characteristics by the coupling between fluids and mechanics, etc.

16:30 PM

Conclusions and seminar wrap-up