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History of NPS

Biographies

2013

Professor Garth V. Hobson: a biography

Hobson, Garth V.

Monterey, California. Naval Postgraduate School

<http://hdl.handle.net/10945/36417>



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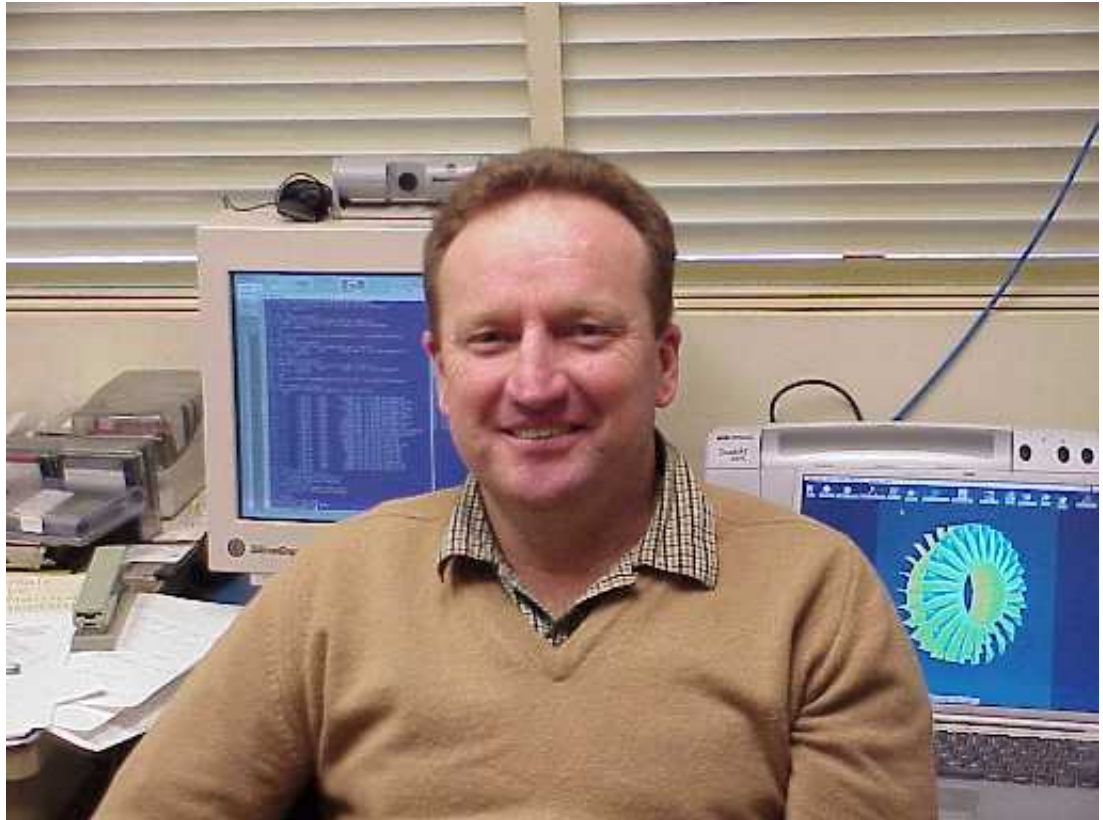
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Professor Garth V. Hobson

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Courses

The main courses I have taught are:

- [AA2042](#)Fundamentals of Thermo and Fluid Dynamics
- [AA2043](#)Fundamentals of Gas Dynamics
- [AA3451](#)Aircraft and Missile Propulsion (Dist. Learning)
- [AA3501](#)Aerodynamic Analysis (Distance Learning)
- [AA3802](#)Advanced Aeronautical Measurements
- [AA4632](#)Computer Methods in Aeronautics (Dist. Learning)
- [AA4507](#)Computational Fluid Dynamics (Dist. Learning)

- [ME3450](#)Computational Methods in Mechanical Engineering
- [ME3240](#)Marine Power and Propulsion
- [ME2201](#)Introduction to Fluid Mechanics
- [ME4225](#)Computational Fluid Dynamics and Heat Transfer(Dist. Learning)

Research

My main research areas are:

- Gas Turbine Aerothermodynamics

TURBOPROPULSION LABORATORY

- High Speed UAV and Missile Propulsion

MPEG of the Shrouded Microjet running in the test stand

MPEG of the Shrouded Microjet running in the FreeJet

- Non-intrusive Measurements in Turbomachines
- Fan and Compressor Stall

Low Speed Cascade Wind Tunnel

- Turbine Tip Leakage Flows

Turbine of Space Shuttle Main Engine, High Pressure Fuel Turbopump

- Computational Fluid Dynamics of Turbomachines

LIST OF PUBLICATIONS

Papers that I have written: (which you can download - if you do please send me an email)

- **LDV Measurements in the Endwall Region of an Annular Turbine Cascade Through an Aerodynamic Window, with Donovan and Spitz**

[AIAA Paper 97-3012](#)

- **Effect of Reynolds Number on Separation Bubbles on Controlled-Diffusion Compressor Blades in Cascade, with Hansen, Schnorenberg and Grove**

[IGTI Paper 98-GT-422](#)

- **Appendix of abovementioned IGTI paper which has the blade machine coordinates**

[C-D profile](#)

Service and Committees

I belong to the following organizations:

- AIAA
- ASME

I am a member of the following committees:

- NPS Numerically Intensive Computing Committee

Graduate Students:

- Capt. Sulieman Al Aman (graduated June '00)
- Lt. Jim Carlson (graduated Sept. '00)
- LCDR Hector Garcia (graduated Dec. '00)