

ABSTRACT

Presentation given at the opening ceremony of the Centre of Vocational Excellence in Birmingham, England on October 7, 2004. Presentation highlights examples of work performed by Electrical Engineers at the NASA Glenn Research Center and highlights the demographics of the NASA workforce. Presentation is intended to be inspirational in nature.

The Electrical Engineering Profession at NASA

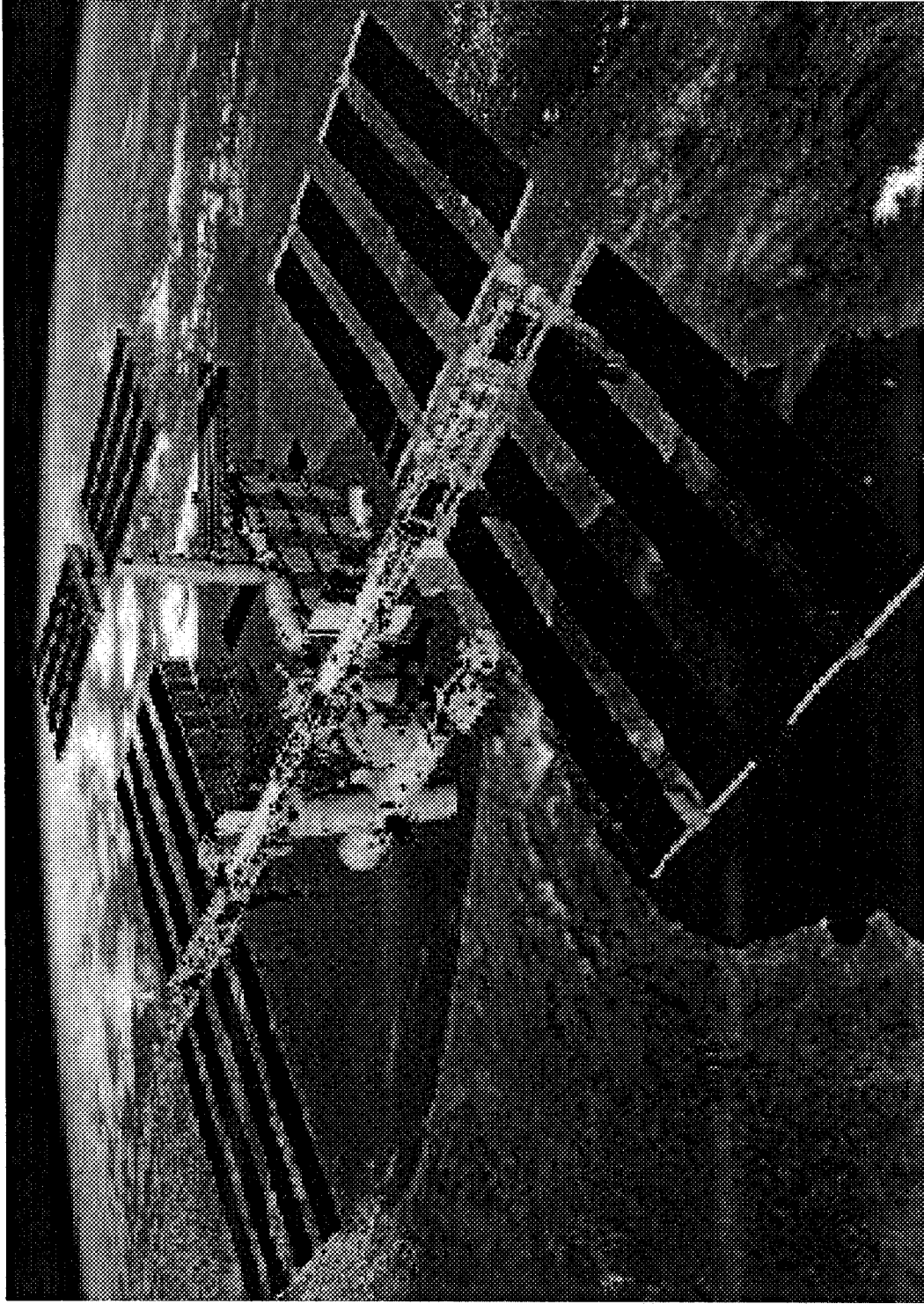
Dawn Emerson

Chief, Avionics, Power and Communication Branch
NASA Glenn Research Center

Glenn Research Center at Lewis Field



International Space Station

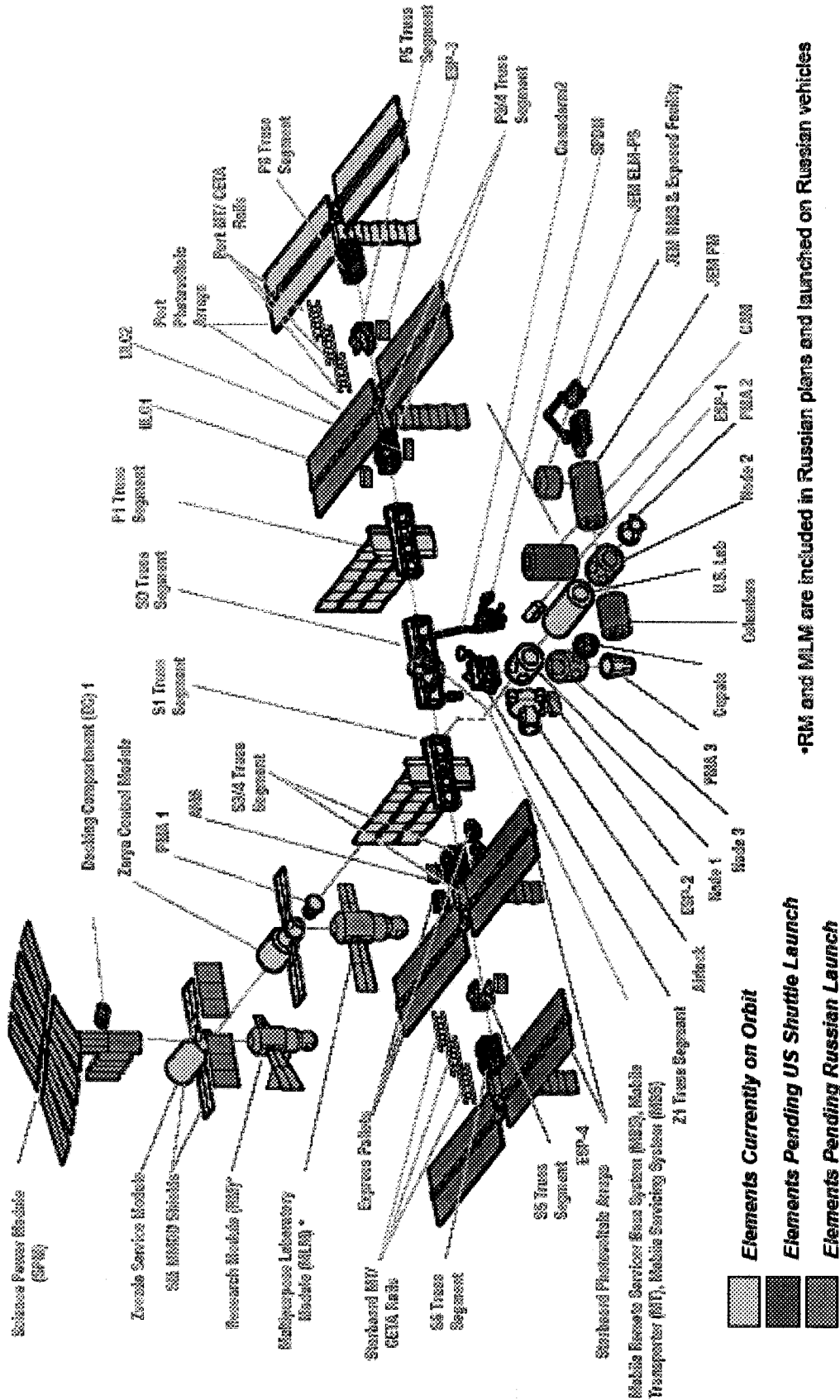


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ISS Technical Configuration

Endorsed by ISS Heads of Agency on July 23, 2004

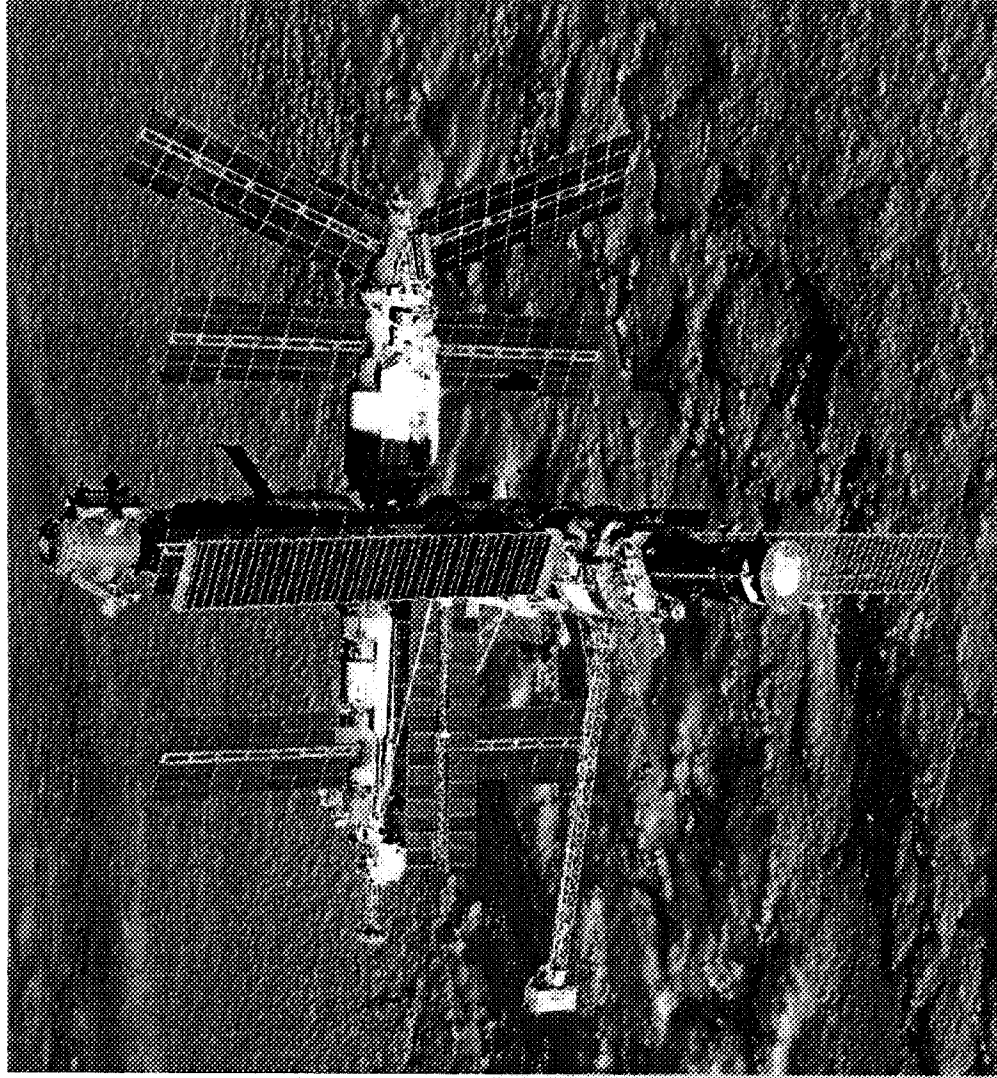


•RM and MLM are included in Russian plans and launched on Russian vehicles

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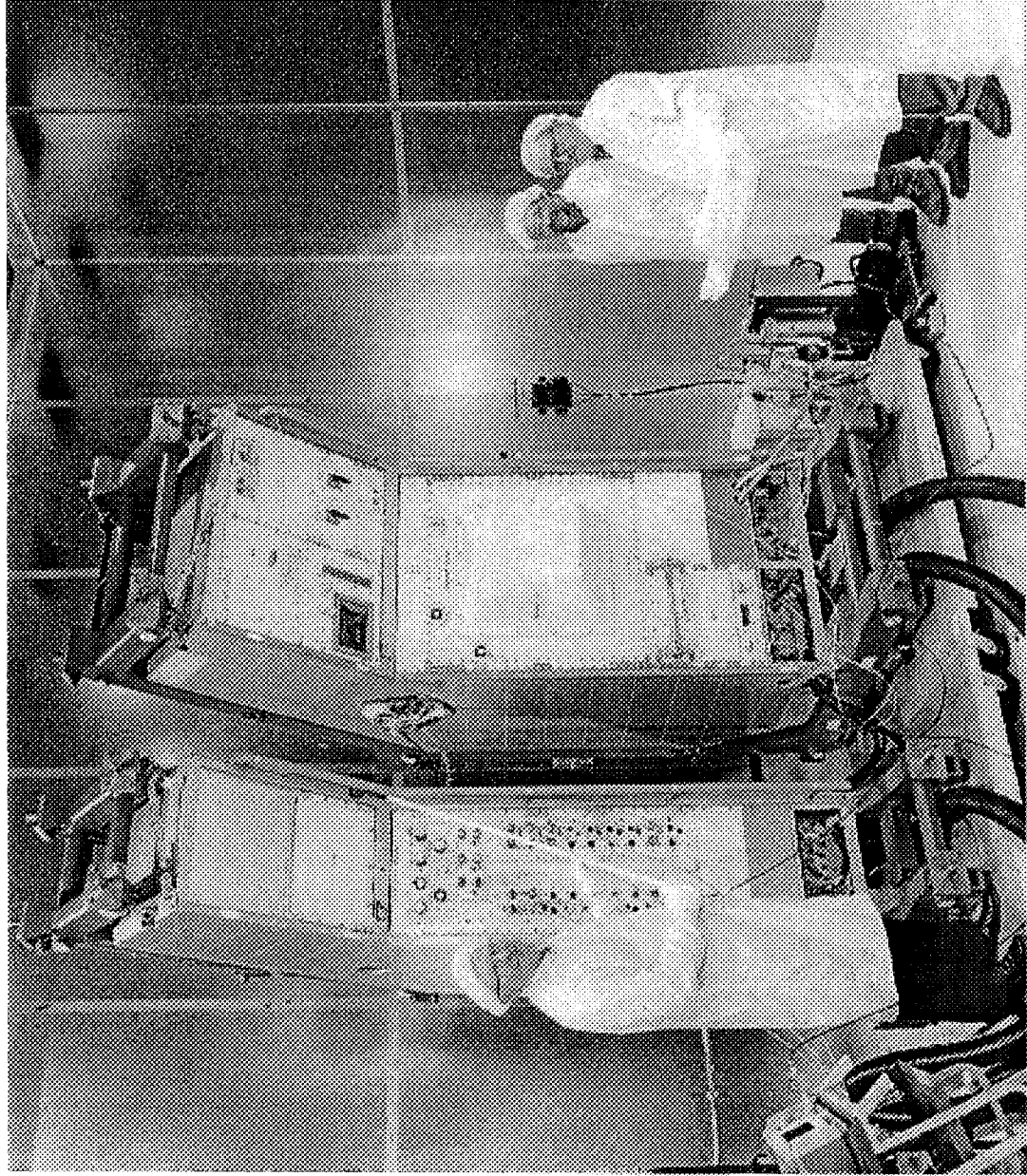
Shuttle/Mir Missions- Solar Dynamic Concentrator



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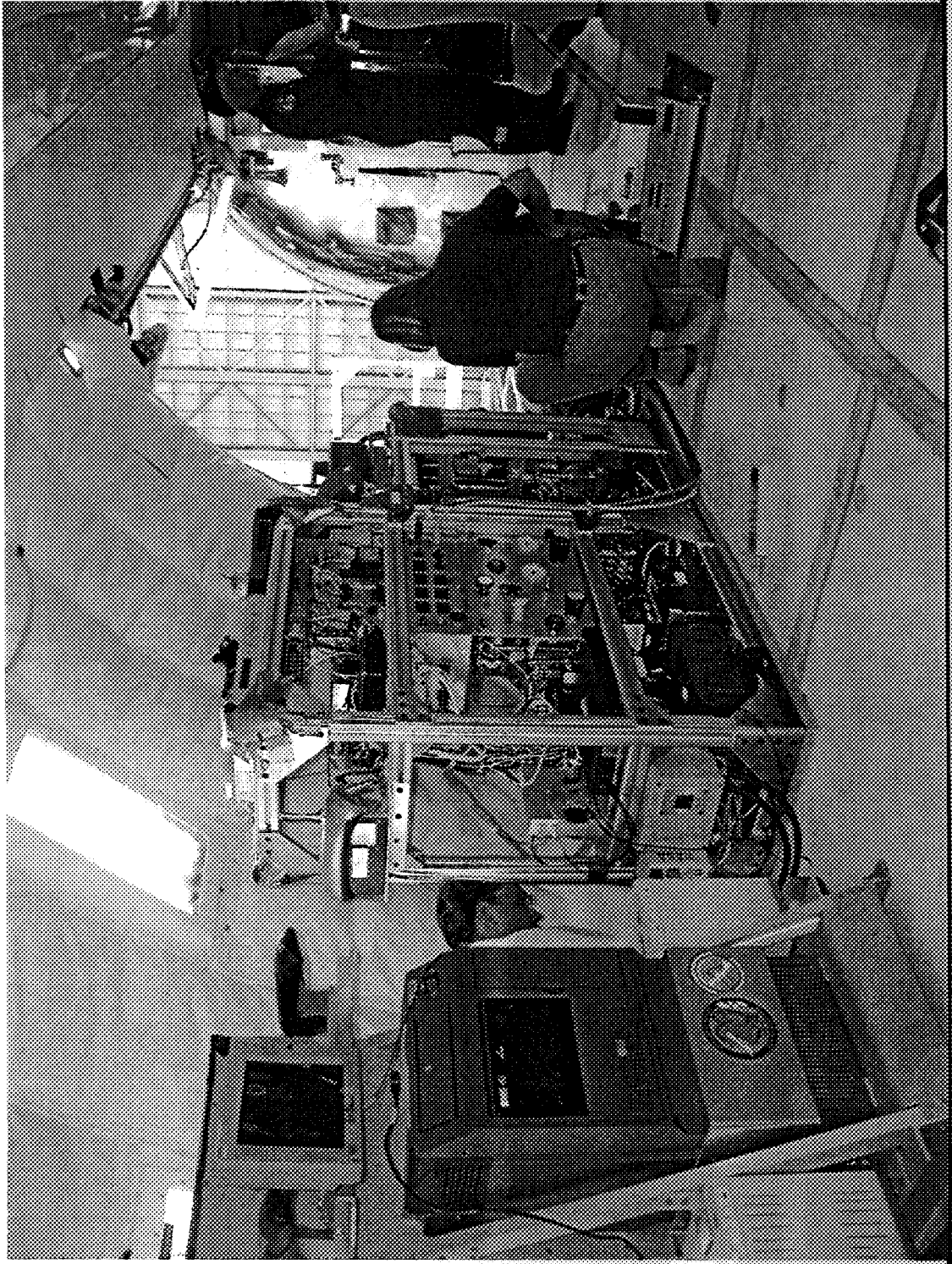
EMI LAB – CM 2 EXPERIMENT



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MOBI EXPERIMENT

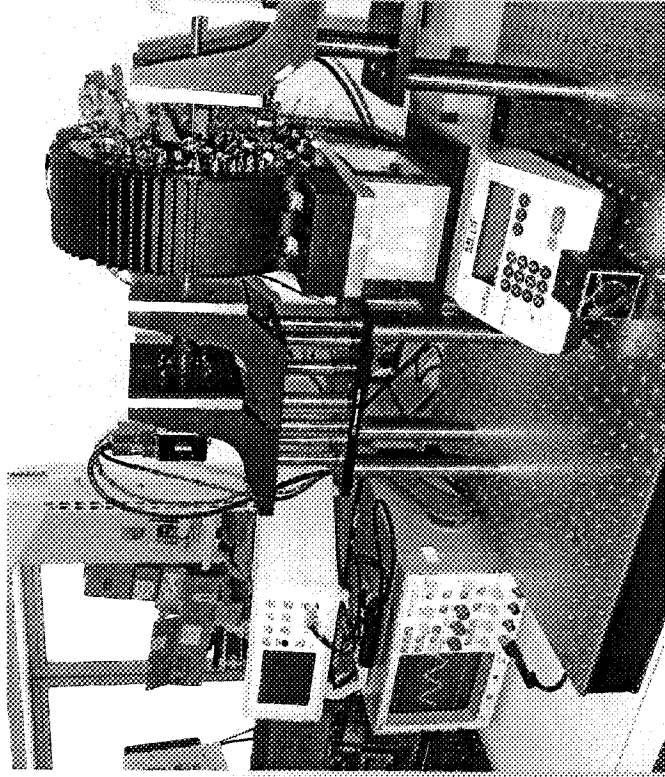


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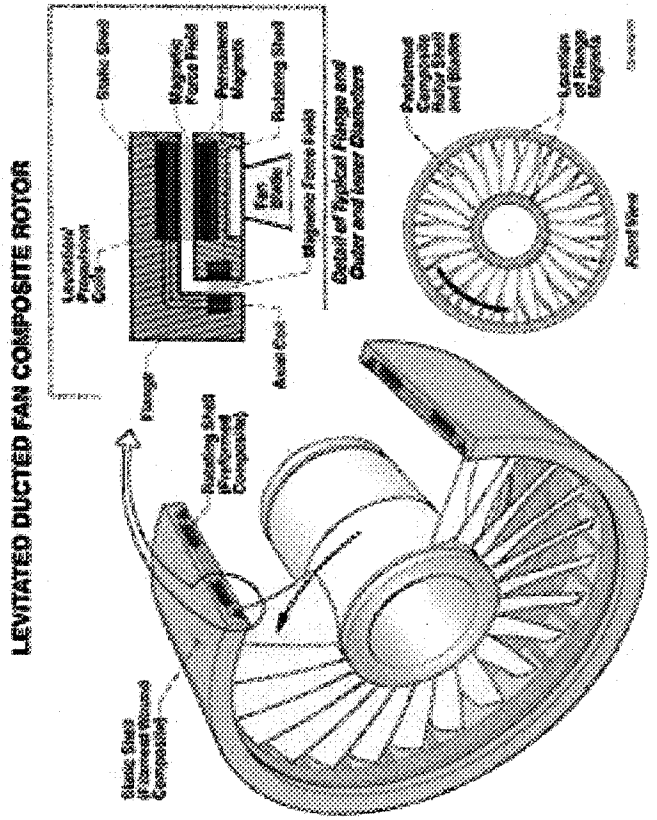


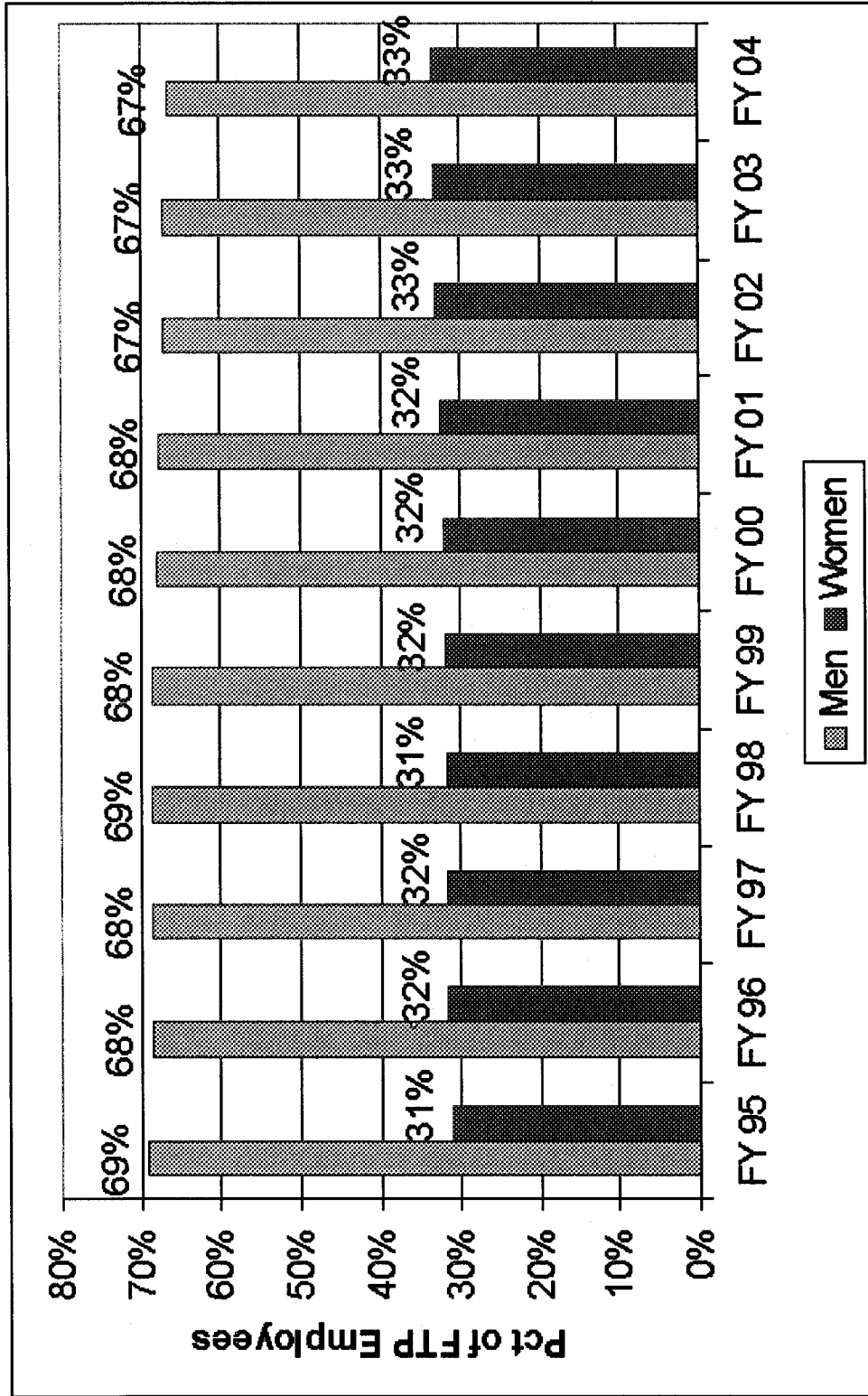
Electromagnetic Engine

Experimental Test Rig

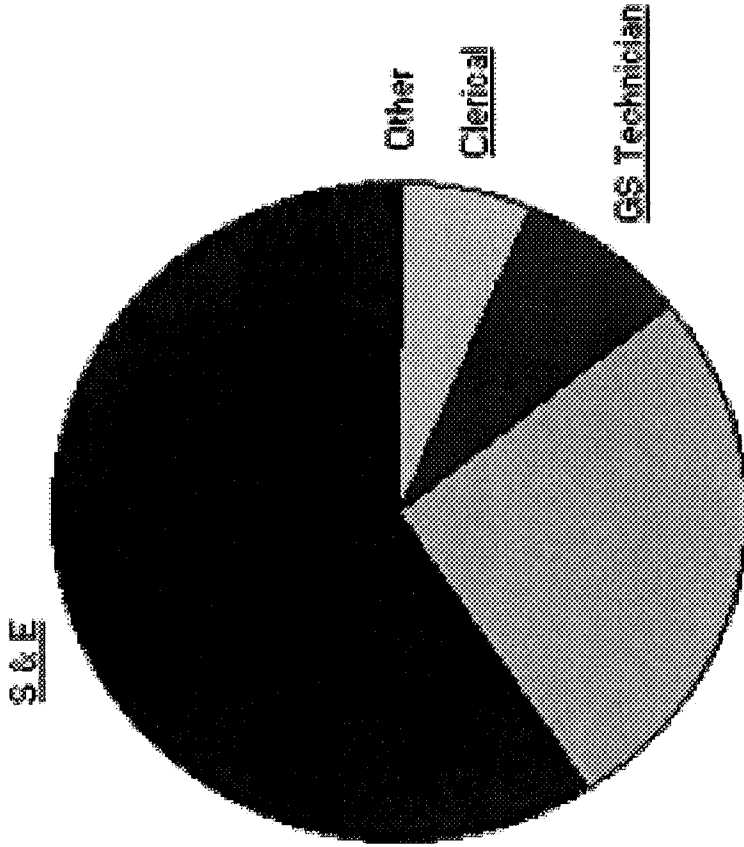


Early conceptual idea

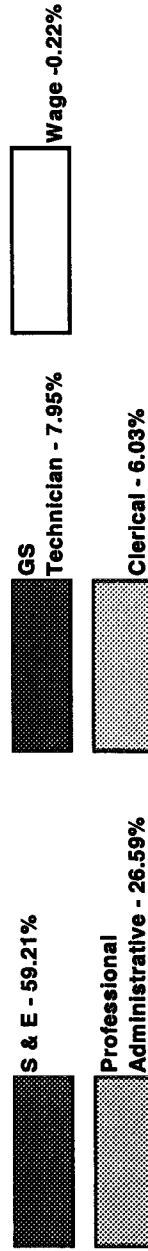




Occupational Distribution Across NASA - Both Genders

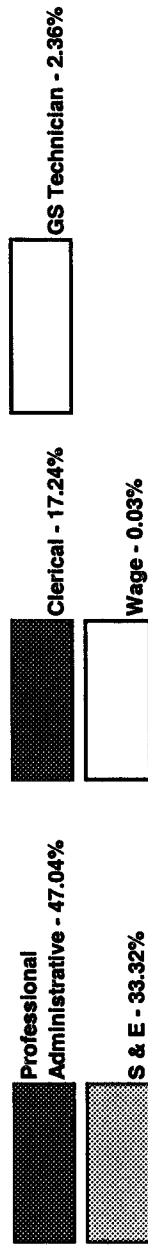
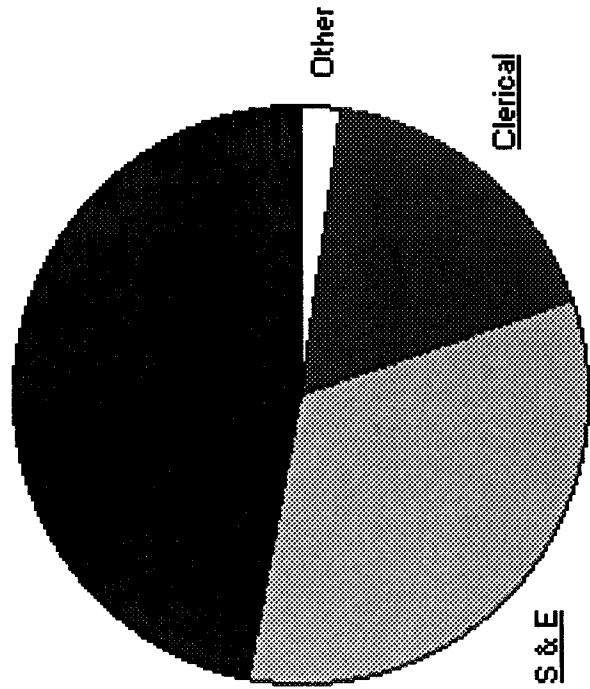


Professional Administrative

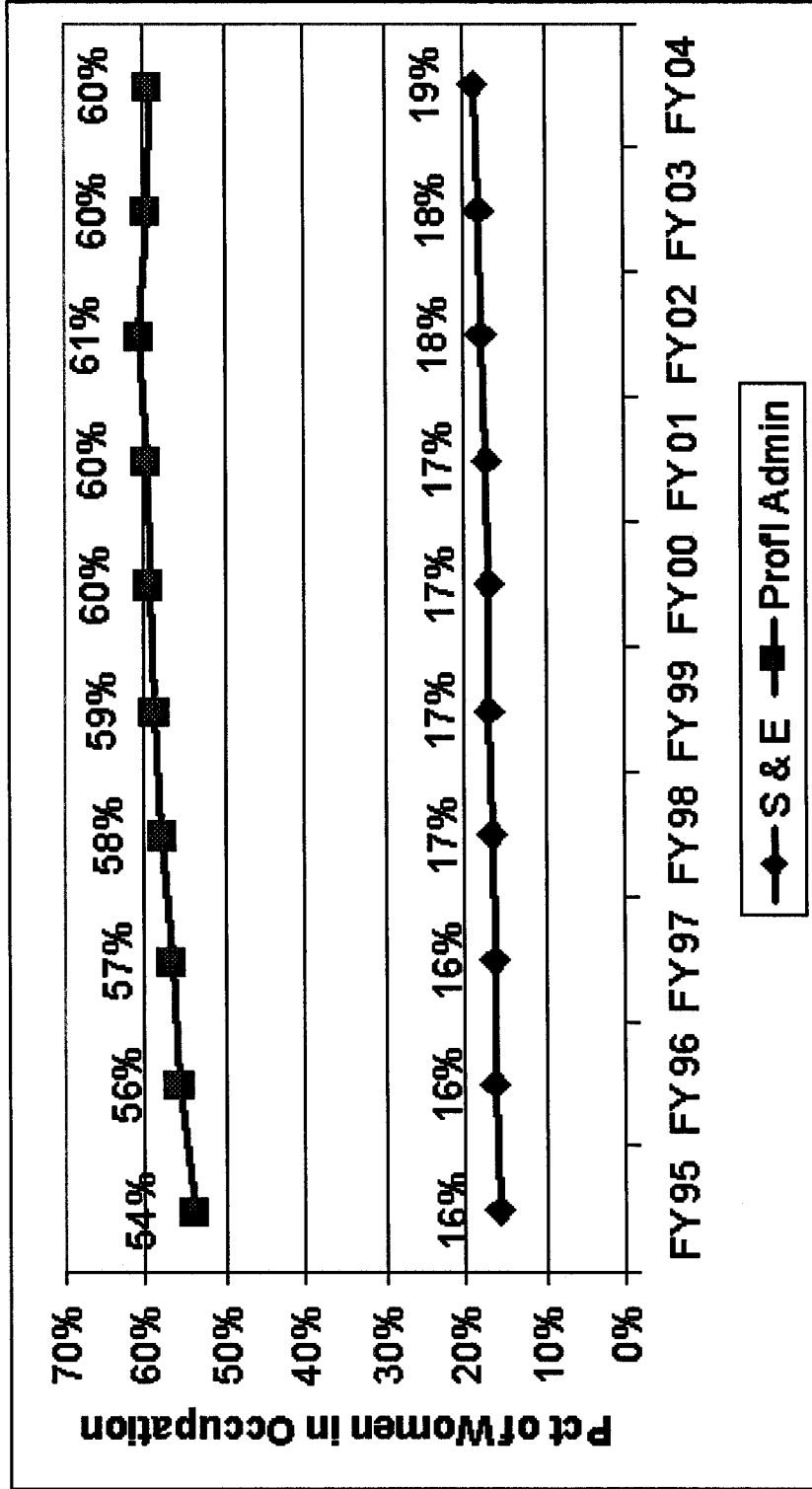


Occupational Distribution Across NASA - Females

Professional Administrative



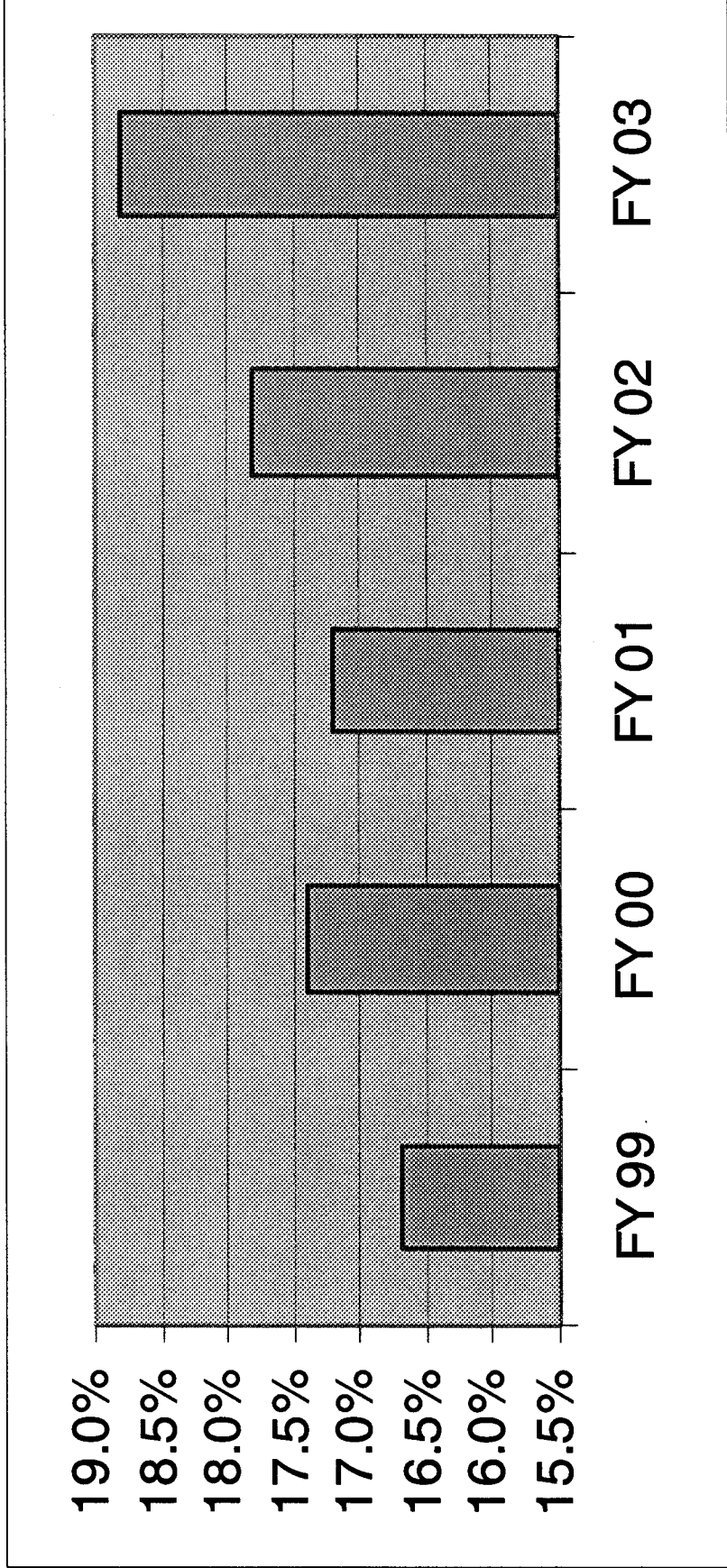
Percentage of Women Among Scientists & Engineers and Administrative Professionals



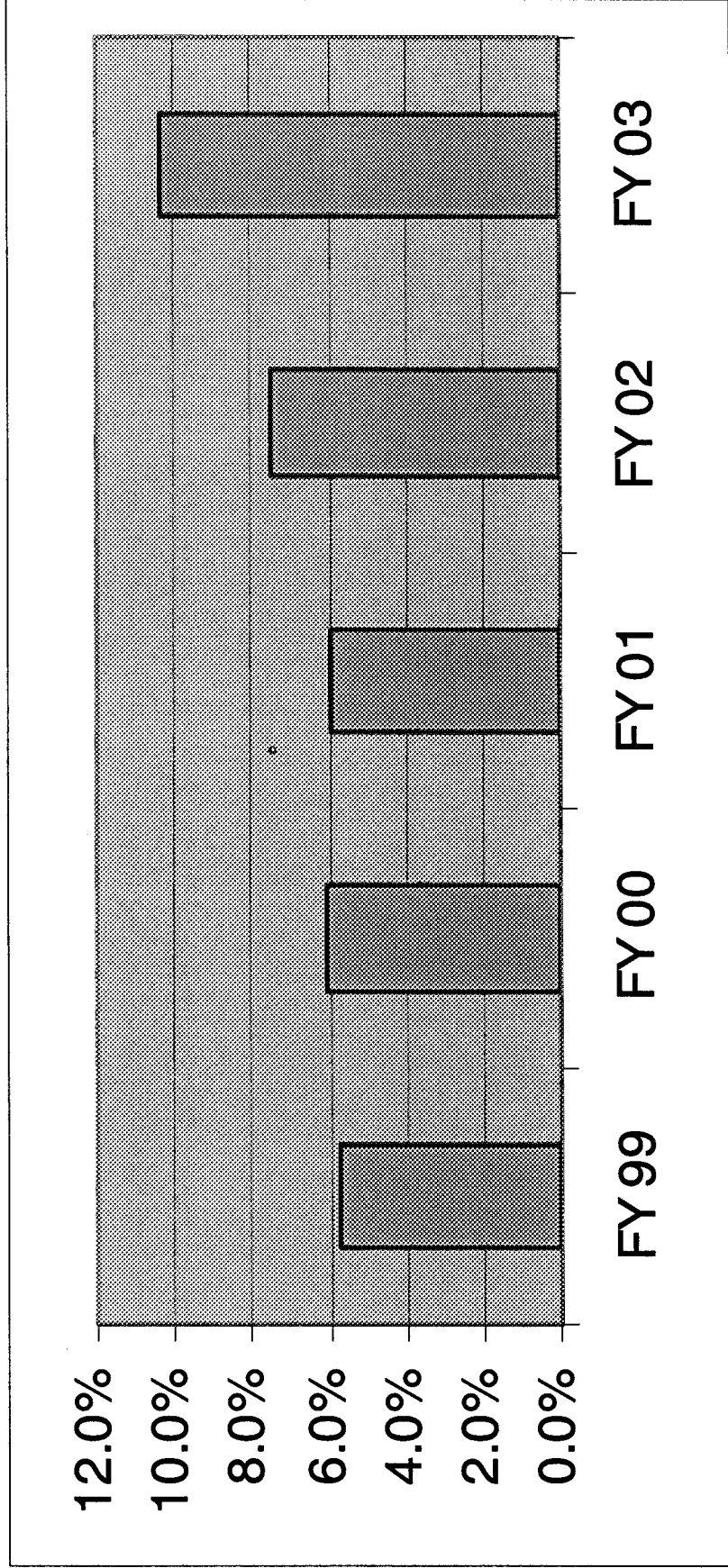
The proportion of women in professional positions has slowly increased over the past 10 years at NASA



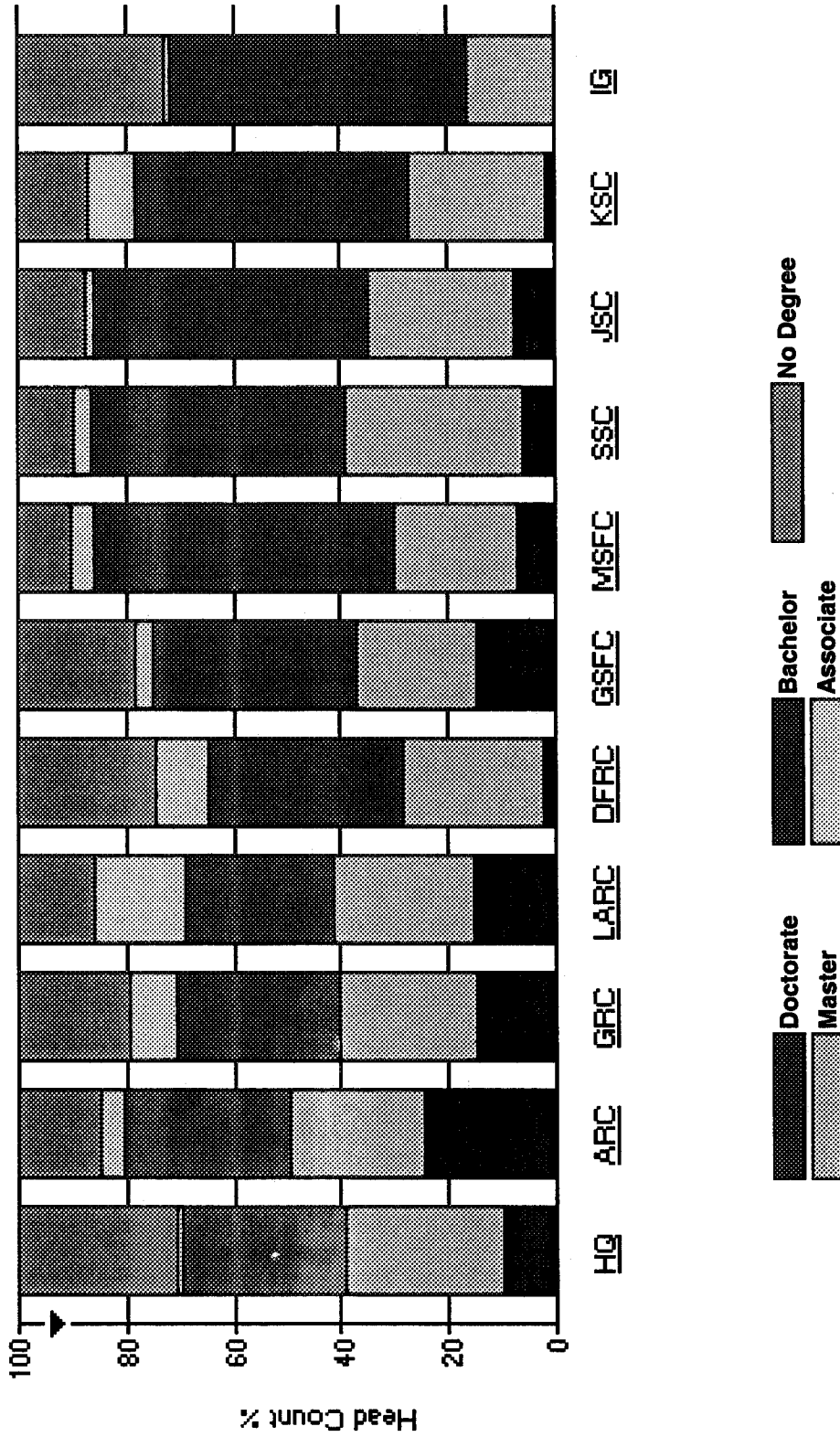
Women in Science and Engineering at the NASA Glenn Research Center



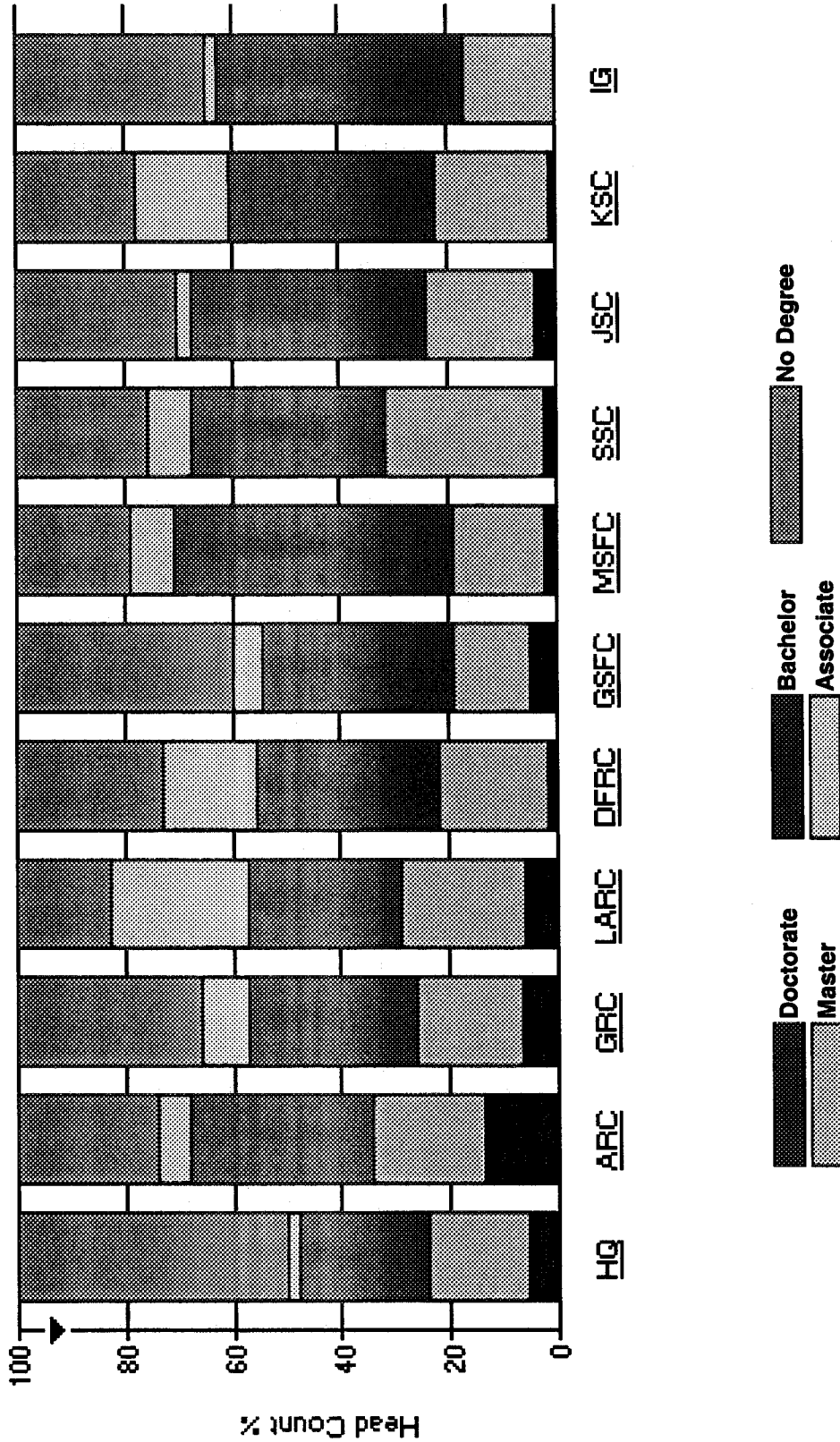
Women in Senior Level Management at the NASA Glenn Research Center



Education Level of All NASA Employees



Education Level of All Female NASA Employees



Diversity of All NASA Employees

