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CONFERENCE AT MOSCOW POWER ENGINEERING INSTITUTE IMENI MOLOTOV

Elektrichestvo, No 7,
Moscow, Aug 1953, p 86

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Cand Tech Sci

In March 1953, a scientific and technical conference was held at the Moscow Power Engineering Institute imeni Molotov. The conference was organized by the Scientific and Technical Society and the Division of Scientific and Research Work of the institute.

The plenary session of the conference was opened with an introductory address by Prof M. G. Chilikin, director of the institute. Chilikin outlined the scientific work of the institute for 1952, and commented on a number of works which had been entered for consideration for the Stalin Prize.

The plenary session also heard the following reports: "I. V. Stalin's Work 'Economic Problems of Socialism in the USSR,'" by Prof Ts. A. Stepanyan, Doctor of Philosophical Sciences; "Power Engineering of Socialism and Capitalism in the Modern Era," by Prof V. A. Kirillin, Doctor of Technical Sciences; and "The Stalin Plan for Transforming Nature," by Prof T. L. Zolotarev, Doctor of Technical Sciences. The second and third papers treated the modern status of power engineering in the USSR and capitalist countries, as well as the course of its development in the Soviet Union.

The further work of the conference was transacted in meetings of sections of the institute.

The Social and Economic Section (chairman, V. V. Antonova) heard eight reports.

The Physics and Mathematics Section (chairman, N. A. Lednev) heard 13 reports.

The Mechanical and Machine-Building Section (chairman, M. G. Slobodyanskiy) heard 14 papers, including the following: "New Method for Producing Precision Castings for Power and Electric Machine Building," by Docent N. S. Kreshchanskiy, Candidate of Technical Sciences; and "Approximate Solutions for Static Problems in the Theory of Elasticity," by Prof M. G. Slobodyanskiy, Doctor of Technical Sciences.

The Electric Power Engineering Section (chairman, A. M. Fedoseyev) heard the following reports in its sessions: "Results of the Operation of Experimental High-Voltage DC Electric Power Transmission," by Eng M. R. Sonin; "Investigation of the Load Capacity of Uninsulated Wires for High Operating Currents," by Docent A. A. Vasil'yev; and "Investigation of Internal Overvoltages in an Auxiliary Line Which Is Connected to the Kuybyshev-Moscow Electric Power Transmission Line When There Is Longitudinal Compensation."

The Heat Engineering Section (chairman, V. V. Luknitskiy) heard 14 papers.

The Water Power Engineering Section (chairman, S. V. Izbash) discussed six reports. The paper by Docent V. V. Semenov, Candidate of Technical Sciences, entitled "High- and Superhigh-Speed Axial-Flow Turbines," elicited lively discussion.

The Electromechanical Section (chairman, Yu. S. Chechet) heard reports entitled "Calculation of the Dynamic Pull Characteristic of a DC Electromagnet," by A. A. Chunikhin and A. G. Slivinskaya, Candidates of Technical Sciences; and "Problems of Electric Machine Building in the Field of Sound Recording," by D. P. Vasil'yevskiy and A. M. Langen, Candidate of Technical Sciences. Research


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devoted to developing a method for modeling the electric field in high-voltage /cable/ junctions was treated in a report by Prof S. M. Bragin, Doctor of Technical Sciences.

Also heard by the Electromechanical Section were the following papers: "Theory and Calculation of the Electric Systems of Remote-Reading Compasses," by F. F. Galteyev, Candidate of Technical Sciences; "Sparking at the Points of a Battery Ignition System," by Docent V. A. Balagurov, Candidate of Technical Sciences; "Graphical Analytical Method for Determining the Longitudinal Magnetizing Force of the Transverse Armature Reaction in Noncompensated DC Machines," by Docent I. S. Goncharov, Candidate of Technical Sciences; and "Inductance of the Armature Circuit in Noncompensated DC Machines," by Docent M. S. Mikhaylov-Mikulinskiy. The last article advances a method for calculating inductance with allowance for the influence of saturation on the basis of the transient characteristic of a machine; it also describes a special method for measuring armature inductance which can be used to measure inductance in some other cases. A report entitled "Rational Selection of the Basic Parameters for Power Transformers" was read by P. M. Tikhomirov, Candidate of Technical Sciences.

The Section of Electrification of Industry and Transport (chairman, A. T. Golovan) heard a number of reports. Among these were "Experimental Investigation of Electric Drives for Walking Excavators," by D. N. Lipatov, Candidate of Technical Sciences; "Heating Objects of Different Shapes in Furnaces With Electric Calorifiers," by Eng S. A. Malyshev; and "Results of Line Testing of a Mercury-Arc-Rectifier Electric Locomotive for Peat-Cutting Sites," by Docent B. P. Petrov, Candidate of Technical Sciences. A paper entitled "Determination of Basic Parameters and Development of Electric Circuits for Single-Phase, Direct-Current Electric Locomotives With Gas-Filled Rectifiers" was read by D. K. Minov, Doctor of Technical Sciences. Prof V. Ye. Fozenfel'd, Doctor of Technical Sciences, delivered a report entitled "Single-Phase -- Three-Phase Electric Locomotives Using Squirrel-Cage Induction Traction Motors With Smooth Frequency Regulation," which examined various induction motor systems, the feasibility of using squirrel-cage motors, and speed regulation by frequency variation.

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