

POLSKA AKADEMIA NAUK

INSTYTUT MASZYN PRZEPŁYWOWYCH

**PRACE  
INSTYTUTU MASZYN  
PRZEPŁYWOWYCH**

**TRANSACTIONS  
OF THE INSTITUTE OF FLUID-FLOW MACHINERY**

**95**



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## PRACE INSTYTUTU MASZYN PRZEPŁYWOWYCH

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poświęcone są publikacjom naukowym z zakresu teorii i badań doświadczalnych w dziedzinie mechaniki i termodynamiki przepływów, ze szczególnym uwzględnieniem problematyki maszyn przepływowych

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## THE TRANSACTIONS OF THE INSTITUTE OF FLUID-FLOW MACHINERY

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exist for the publication of theoretical and experimental investigations of all aspects of the mechanics and thermodynamics of fluid-flow with special reference to fluid-flow machines

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## Profesor Józef Kestin nie żyje.



16 marca 1993 roku rodzina termodynamików poniosła wielką stratę. W tym dniu zmarł Profesor Józef Kestin. Był on wybitnym termodynamikiem polskiego pochodzenia mieszkającym i działającym od czasów II wojny światowej za granicą. Od 1952 roku aż do śmierci mieszkał i pracował w Providence w stanie Rhode Island w USA, gdzie zajmował stanowisko profesora na znanej uczelni Brown University.

Jego śmierć dotknęła w szczególny sposób grono pracowników naukowych Instytutu Maszyn Przepływowych, z którymi ściśle współpracował od połowy lat siedemdziesiątych. Odszedł od nas człowiek, który pozostawił w Gdańsku grupę przyjaciół i sympatyków. Profesor Józef Kestin był znany na świecie przede wszystkim jako wybitny ekspert w badaniach nad właściwościami fizycznymi pary wodnej i innych substancji.

W jego okazałym dorobku naukowym znalazły się również cenne prace z zakresu podstaw termodynamiki, wymiany ciepła oraz przepływów dwufazowych. Większość prac z przepływów dwufazowych była wykonywana przy współudziale naukowców z naszego Instytutu. Jego działalność na polu nauki znalazła szerokie uznanie. Profesor Józef Kestin był członkiem Amerykańskiej Akademii Nauk Technicznych, jak również członkiem zagranicznym Polskiej Akademii Nauk. Stowarzyszenie Inżynierów Mechaników Amerykańskich w dowód jego wybitnych osiągnięć w termodynamice przyznało mu złoty medal Harry Pottera. Został wyróżniony nagrodą Humboldta, stypendium w Instytucie Zaawansowanych Badań w Berlinie (Institute for Advanced Study in Berlin), doktoratem honorowym na Uniwersytecie Claude'a Bernarda w Lyonie oraz tytułem Fellow w Imperial College.

Profesor Józef Kestin urodził się 18 września 1913 roku w Warszawie. Dyplom magi-

sterski inżyniera uzyskał na Wydziale Mechanicznym Politechniki Warszawskiej, w 1937 roku. W czasie II wojny światowej przebywał w obozie pracy w ZSRR, a następnie z armią Andersa przeszedł szlak bojowy do Afryki i w końcu w 1944 roku znalazł się w Polskim Uniwersytecie w Londynie, gdzie rozpoczął karierę naukową jako starszy asystent wykładowcy. W 1945 roku obronił pracę doktorską na temat badań własności fizycznych pary wodnej. Od 1947 do 1952 roku pełnił tam obowiązki dziekana Wydziału Mechanicznego. W 1952 roku przybywa do USA do Brown University, jednego z najstarszych uniwersytetów należących do Ivy League, jako Visiting Professor. Pozostaje tam do końca życia. W latach 1976-1985 pełni funkcję dyrektora Centrum Studiów Energetycznych. Od 1983 roku piastuje stanowisko Research Professor i koncentruje się na badaniach własności fizycznych mieszanin gazów, podstaw rozszerzonej termodynamiki procesów nieodwracalnych oraz przepływów mieszaniny cieczy i pary.

W swej długiej karierze naukowej profesor Józef Kestin zasiadał w komitetach redakcyjnych następujących pism naukowych: *Physica A*, *International Journal of Thermophysics*, *Journal of Chemical and Engineering Data*, *Journal of Non-Equilibrium Thermodynamics*, *Revue Generale de Thermique* i *Heat Transfer and Fluid Flow*. Był autorem lub współautorem 6 książek z zakresu termodynamiki. Tłumaczył z języka niemieckiego na angielski 4 obszernie pozycje z termodynamiki, wymiany ciepła i teorii warstwy przyściennej (*Schlichting H.: Boundary Layer Theory*). Pod jego kierunkiem ukazały się poradniki dotyczące własności transportowych, geotermii i termodynamiki, w sumie 10 książek. Najważniejsze są jednak jego oryginalne prace w ilości 260 artykułów naukowych opublikowane w renomowanych czasopismach naukowych.

Poza termodynamiką jego pasją była historia, polityka i językoznawstwo. Interesował się głównie historią I i II wojny światowej. Miał łatwość nawiązywania kontaktów z ludźmi. Pomogła mu w tym doskonała znajomość 6 języków. Miałem okazję współpracować z nim przez 15 lat. Imponowała mi jego erudycja, dzięki której mógł spoglądać na problemy naukowe nie tylko z punktu widzenia termodynamiki ale ocenić ich wagę i znaczenie w innych działach fizyki. Szczególnie jednak troszczył się o stan wiedzy w termodynamice. Jego stosunek w tej kwestii najlepiej obrazuje cytat z jego listu do profesora G. Lebon z 2 grudnia 1992 roku: "... *Thermodynamics seems to be the only branch of classical physics which has not reached consensual agreement, particularly as for as the analysis of irreversible processes is concerned. There exist several rival "schools" or theories of different types which are demonstrably inconsistent with each other. In several cases it is difficult to prove this inconsistency as well as the falsity of some proposed formalisms because of semantic problems. Authors call the same concept by different names and use the same name for different concepts. Moreover, when new words are introduced, authors ascribe to the concept its grammatical meaning which goes further that the physics would allow. This leads to chaos*".

Profesor Józef Kestin śmiało mógłby o sobie powiedzieć: *Non omnis moriar*. Rzeczywiście nie wszystek umarł. Pozostały po nim nie tylko wspomnienia jego kolegów, przyjaciół i współpracowników, pozostały po nim wartościowe prace - spisany dorobek życia.

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