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Roman Teisseyre as an Author and Editor

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As a language and managing editor of the publications issued by the Institute of Geophysics for the last forty years, I feel obliged to write a few words about my work with Roman, our most prolific author. He was my very good and reliable friend, and I experienced a lot of good from him during my whole work at the Institute.

In terms of pure facts, Roman Teisseyre was an author or co-author of over 250 papers and wrote or edited a number of multi-volume, unique monographs, related to the variety of physical processes acting on and within our Earth. Yet his real role and his merits for the development of the Institute's publishing activity were much greater. He was a spiritus movens of organizing modern editorial offices and kept encouraging his colleagues and students to write, understanding the necessity of sharing our achievements worldwide.

His first geophysical paper appeared in *Acta Geophysica Polonica* already in Number 1, 1953. In the early years of this journal, he probably was the most frequent author, acquiring the position of Editor-in-Chief in 1995 and keeping it until 2005.

Alongside, with full energy, Roman reorganized other publications of the Institute, which had been appearing under various titles. In 1963 he gathered all of them and created an ample series *Materiały i Prace Zakładu Geofizyki PAN*, covering the results from observatories, original scientific papers, selected habilitation treatises, selected doctoral theses, conference materials, and the like. In 1973 its name was translated into English, *Publications of the Institute of Geophysics, Polish Academy of Sciences*, and it's how it appears up to now. After some years, this series drew the attention of Springer Verlag and opened our cooperation with this publisher; we were asked to transform part of it into Springer's book series, which gave birth to the *GeoPlanet Book Series*. Roman was a member of its Editorial Board until his death and a co-editor of two books.

Roman highly valued monographs, books treating some specific problems in a comprehensive way, from various points of view. In 1983 he edited a 2-volume monograph in the Polish language ("Fizyka i Ewolucja Wnętrza Ziemi"), issued by Polish Scientific Publishers PWN, and then, in the years 1984–1993, he co-edited the monumental 6-volume monograph "Physics and Evolution of the Earth's Interior", issued by PWN-Warszawa, Elsevier-Amsterdam, Oxford, New York.

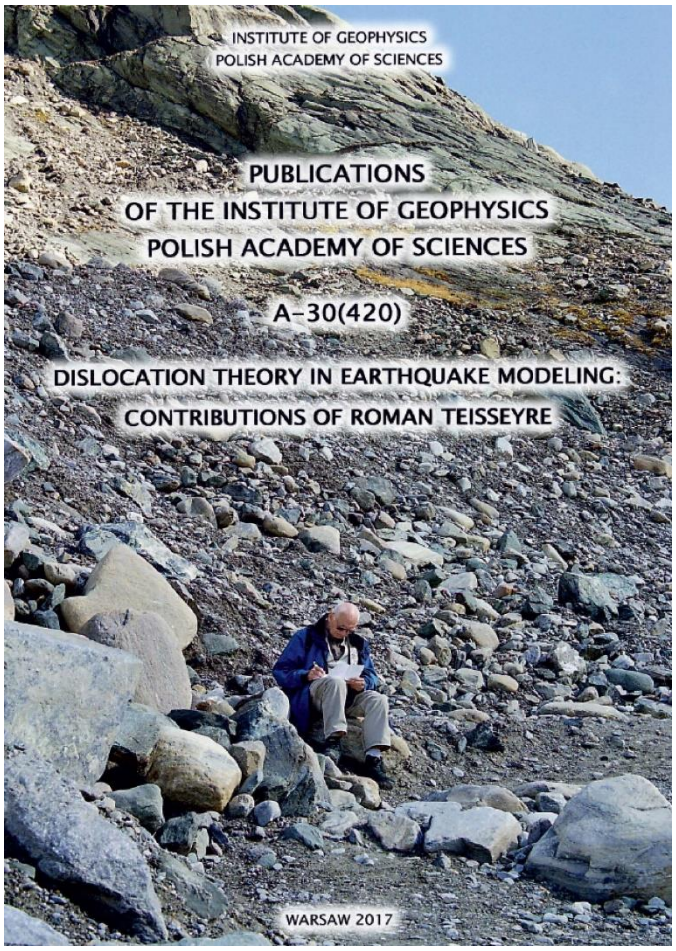

Fig. 1. Cover of the issue with Roman's major contributions to the development of dislocation theory.

Roman was one of the pioneers of applying the dislocation theory in geophysics. Therefore, in 2017 we decided to republish his major publications of the years 1961–1990, the milestones in the consecutive stages of the development of the theory of earthquake premonitory and fracture processes, scattered over various journals and books (front cover in Fig. 1). This issue also contains an outline of Roman's plans for further work; he wrote: "I am currently working on further developments of the Asymmetric Continuum Theory with the shear and rotation strains and include the quantum processes. I am taking into account doublet continua with the elasticity and time rate plasticity, using a special definition of plasticity. I am also trying to include, as an important counterpart, the electric and magnetic fields". Unfortunately, he was unable to realize his plans because of a serious illness.

For copy editors, Roman was a difficult author, since it was not easy to follow his reasoning and his amazing command over sophisticated formulae. His brain operated so fast that some explanation seemed too obvious for him. But he gladly accepted all reasonable remarks, treated them with a friendly smile, and we hope his papers were understandable for people truly involved in the studied problems.

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