## **PREFACE**

The articles presented in the fourth volume of "Copernican Letters", covers the area of chemistry, physics and life sciences. All of them are written by the young scientists, which have the opportunity to present the results of their research towards doctorate. We are continuing our efforts to give the new platform for the graduate students publications in peer reviewed articles collected in annual periodic. The name is after the greatest Polish astronomer Nicolaus Copernicus (1473-1543). The purpose of this publication is to present results from various areas of science, giving the opportunity for the young reader to compare the different ways of solving scientific problems.

We hope the content of the volume IV will be useful for Ph. d. students and other readers in different areas of science.

The editing team wish to acknowledge the reviewers, who provide the reviews of the manuscripts.

Edward Szłyk The Editor