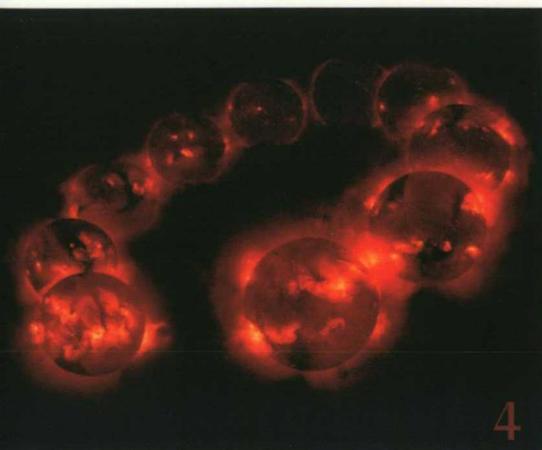


ACADEMIA

No. 3 (15) 2007 The Magazine of the Polish Academy of Sciences



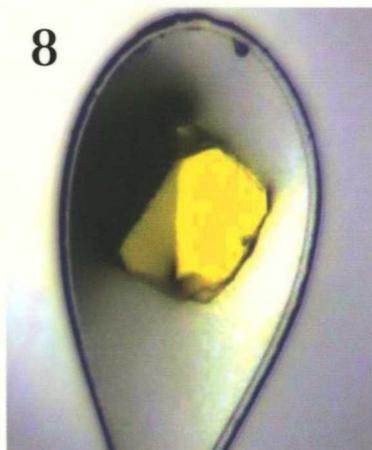
Focus on

Our Unsteady Sun

Janusz Sylwester

The Sun's variability is decisive for the Earth's future fate.

Astronomers study it using refined techniques



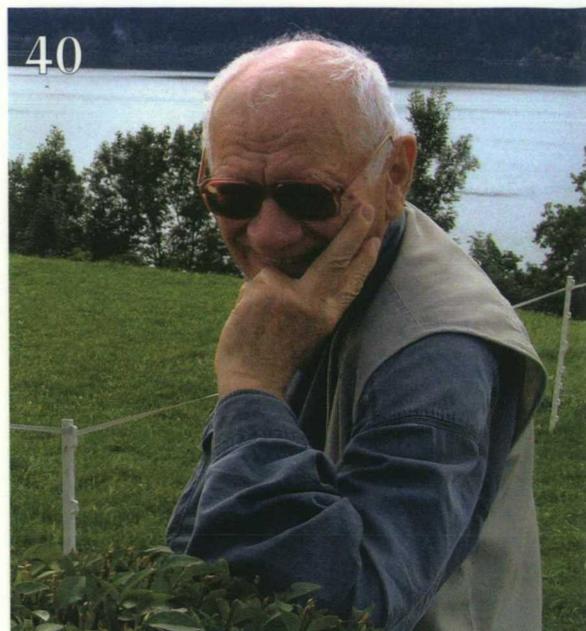
Focus on

Reflections from Crystals

Mariusz Jaskólski, Mirosław Gilski

From a distance of 2,000 km, scientists can watch the reflection of X-rays

from their protein crystals



Briefly Speaking

Without Compulsion

Roman Teisseyre

We talk to one of Poland's most famous geophysicists about earthquakes, the practicality of research, and patriotism

Editorial	3
Focus on	
Heliophysics	4
Our Unsteady Sun, Janusz Sylwester	
Protein Crystallography	8
Reflections from Crystals, Mariusz Jaskólski, Mirosław Gilski	
Demographics	12
Live a Good, Long Life, Irena E. Kotowska	
Molecular Biology	16
Cellular Cleaners, Agnieszka Podlaska	
Nuclear Physics	20
Radioactivity Around Us, Jerzy W. Mietelski	
History	24
Between Worlds, Anna Landau	
Applied Mathematics	28
Risk and the Market, Łukasz Stettner	
Research in Progress	
Demography	32
Science for Export, Anna Kicingier	

Chemistry	34
From Gasoline to Hyacinth, Maciej Szaleniec	
Organic Chemistry	36
Boron Targets Cancer, Agnieszka Olejniczak	
Agrophysics	38
Under Stress, Jerzy Lipiec, Jerzy Rejman	
Briefly Speaking	
Without Compulsion	40
Highlights	44
Insight	
Mentor of Polish Astronomy	46
Kazimierz Stępień	
A Festival Against Ignorance	48
Magdalena Fikus	
Short Circuit	
Charming the Future	50
Paweł Kozłowski	
Gallery	51