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GHOST OF TOM BROWN; FROM THE PUBLIC SCHOOLS TO THE WORKING CLASSES: AMATEURS VERSUS PROFESSIONALS; THE WANING OF THE AMATEUR SPORT ETHOS: FROM ETON TO PROSHOW; CONCLUSION; BIBLIOGRAPHY; MORE FOOD, LESS WATER; WATER IN THE WORLD: CHALLENGES FOR THE 21ST CENTURY; WATER AVAILABILITY AND WATER DEMAND; WATER FOOTPRINTS; CHALLENGES FOR IRRIGATED AGRICULTURE; CROP WATER PRODUCTIVITY; HOW EFFICIENT ARE CROPS IN THEIR WATER USAGE? SEVERAL WAYS TO IMPROVE CROP WATER PRODUCTIVITYHOW TO IMPROVE IRRIGATION WATER MANAGEMENT; DESIGNING IRRIGATION PLANS TO MATCH WATER SUPPLY WITH DEMAND; IRRIGATION CHARTS FOR FARMERS; DEFICIT IRRIGATION: DELIBERATELY PROVOKING WATER STRESS; SIMULATION OF CROP DEVELOPMENT AND YIELD; SIMULATION AS A TOOL FOR OBTAINING PROMISING FIELD MANAGEMENT STRATEGIES ; AQUACROP: A CROP WATER PRODUCTIVITY MODEL FROM FAO; SOIL WATER BALANCE; BIOMASS PRODUCTION; HARVEST INDEX AND YIELD; WHAT RESULTS CAN BE EXPECTED?; BIBLIOGRAPHY; 4.5 BILLION YEARS OF GLOBAL CHANGE; AN UNCHANGING WORLD? SYSTEM EARTH: WHY THE WORLD IS IN A PERMANENT STATE OF CHANGEFROM THE 'BUILDING OF MOUNTAINS' TO A 'LIVING PLANET'; SYSTEM EARTH; DRIVING THE SYSTEM; THE NATURAL THERMOSTAT; GLOBAL CHANGE; THE 'GOLDILOCKS PHENOMENON' - "... NOT TOO HOT, NOT TOO COLD ..."; RARE EARTH HYPOTHESIS; "CHRONICLE OF A DEATH FORETOLD'; 'BURSTING THE LIMITS OF TIME'; THE BIRTH OF GEOLOGY; MEASURING TIME; 'DEEP TIME'; MODI OPERANDI OF TIME; BACK TO THE FUTURE; SYSTEM EARTH ON THE HUMAN TIME SCALE; THE HUMAN TIME SCALE; THE HOLOCENE: A CLIMATIC ODDITY?; THE 'HOCKEY STICK SYNDROME'
THE 21ST CENTURY: A CENTURY OF NATURAL DISASTERS

Sommario/riassunto

What preoccupies scientists today? What is the impact of their ideas and discoveries on ourselves and on our society? This question is the starting point of the 'Lectures for the twenty-first century'. Parallel to the established Dutch series, this year for the first time an English edition was organized. This first English edition offers an international audience a glimpse behind the scenes of the laboratories, the work shops or the studies and shows how linguistic justice, the history of Belgium, Fair Play, food supplies, global change, cultural identity, China and the global environmental
