

## Kitplanes August 2003 Vol 20 No 8

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at the beginning of the 20th century kristian birkeland 1867 1917 a norwegian scientist of insatiable curiosity addressed questions that had vexed european scientists for centuries why do the northern lights appear overhead when the earth s magnetic field is disturbed how are

magnetic storms connected to disturbances on the sun to answer these questions birkeland interpreted his advance laboratory simulations and daring campaigns in the arctic wilderness in the light of maxwell s newly discovered laws of electricity and magnetism birkeland s ideas were dismissed for decades only to be vindicated when satellites could fly above the earth s atmosphere faced with depleting stocks of chilean saltpeter and the consequent prospect of mass starvation birkeland showed his practical side inventing the first industrial scale method to extract nitrogen based fertilizers from the air norsk hydro one of modern norway s largest industries stands as a living tribute to his genius hoping to demonstrate what we now call the solar wind birkeland moved to egypt in 1913 isolated from his friends by the great war he yearned to celebrate his 50th birthday in norway the only safe passage home via the far east brought him to tokyo where he passed away in the late spring of 1917

when i was a child growing up in south america i often went camping in the wild and hence had direct access to the wondrous southern sky the southern cross was all mine at the time little did i know then that the study of the sky would take such a huge importance in my life and that in the end astronomy and astrophysics would in many ways become my country and my religion i have lived in several different countries and when asked my nationality i am always very tempted to reply astronomer i started as a theorist and my only dream in my youth was to spend nights thinking and calculating with paper and pencil and to have the impression by dawn that i had understood something new so at the time astronomy was seen or dreamt by me as a solitary endeavour with periodic encounters with my wise adviser and professors it is this model that i adopted when doing my phd work my generation has lived through many revolutions of all kinds those in astronomy i believe remain particularly remarkable and i am a true product of them now i elect to live and work in large organizations and to share my endeavours with many people and i relish the series of andre heck on organizations and strategies in astronomy which help us recover our memories reconstitute our own story and read with glee about our neighbouring or far away colleagues

this book presents studies of complexity in the context of nonequilibrium phenomena using theory modeling simulations and experiments both in the laboratory and in nature

it was with pleasure that caup became for three days the core to the cloud of star formation experts all over the world close to the celebration of its 15th anniversary therefore still in the early stages of institutional evolution we are proud of our multiple activities in astronomy a

productive research centre classified as institution of excellence within the portuguese research units but also an institution of public utility as recognised by the government fifteen years ago we choose to play a role not only in research as expected from any research centre but also in the training of the future astronomers and the promotion of science and scientific culture this choice is clearly stated in our by laws and also in the multiple activities we have carried out since along the years we have organized on a regular basis international workshops similar to cores to clusters sometimes we have chosen to organize international conferences of a larger size on other occasions the choice has been for smaller and more informal discussion meetings or even doctoral schools with very different objectives in common all those meetings have always had besides the formal registered participants a group of informal participants our undergraduate students of astronomy so eager to be in touch with the real world

the founding of the dudley observatory at albany n y in 1852 was a milestone in humanity's age old quest to understand the heavens as the best equipped astronomical observatory in the u s led by the first american to hold a ph d in astronomy benjamin apthorp gould jr the observatory helped pioneer world class astronomy in america it also proclaimed albany's status as a major national center of culture knowledge and affluence this book explores the story of the dudley observatory as a 150 year long episode in civic astronomy the story ranges from a bitter civic controversy to a venture into space from the banks of the hudson river to the highlands of argentina it is a unique glimpse at a path not taken a way of doing science once promising now vanished as discoveries by the dudley observatory's astronomers especially its second director lewis boss made significant contributions to the modern vision of our milky way galaxy as a rotating spiral of more than a million stars the advance of astronomy left that little observatory behind

against the backdrop of international attempts to prevent the use of weapons of mass destruction this volume of essays by well known analysts examines what the threat to india could entail highlights the differences between state use of these weapons and their use by non state actors discusses possible scenarios india needs to guard against and protective measures it can take and determines the position the indian government needs to take in the international arena in respect of initiatives to prevent the use of weapons of mass destruction a salient feature of the book is the detailed suggestions it offers of efforts required to set up material and human resources to respond to such catastrophes

examining nixon's autobiographies and political memorabilia frick offers far reaching perceptions not only of the man but of nixon's version of

himself contrasted with those who would interpret him differently he cites reinventions of nixon from the late 1980s particularly the museum at the richard nixon library and birthplace to demonstrate the resilience of certain national mythic narratives in the face of liberal critiques and he recounts how celebrants at nixon's state funeral at which bob dole's eulogy depicted a god fearing american hero attempted to bury the sources of our divisions over him rendering in some minds the judgment of redeemed statesman to erase his status as disgraced president with dozens of illustrations nixon posing with elvis the national archives most requested photo nixonian cultural artifacts classic editorial cartoons no other book collects in one place such varied images of nixon from so many diverse media these reinforce frick's probing analysis to help us understand why we disagree about nixon and why it matters how we resolve our disagreements book jacket

illustrated throughout this work contains surface and orbital images from spirit opportunity mars express the hubble space telescope and earth based observations plus historic images depicting mars in fiction and mythology movie images and drawings that adorned the pulp sci fi stories of the 1930s

the first major comprehensive treatment of urban revitalization in 35 years examines the federal government's relationship with urban america from the truman through the clinton administrations provides a telling critique of how in the long run government turned a blind eye to the fate of cities

at head of title national cooperative highway research program

this supplementary text offers two readings per chapter organized in a debate style format representing opposing viewpoints the straightforward thought provoking presentation facilitates class discussion debate topics include public opinion the american people and war civil liberties and war debating the usa patriot act debating the deficit and the size of government economic equality a threat to democracy and u s foreign policy after september 11 american hegemony or international cooperation

a the set generally since the publication of its first edition in 1950 the annual review of united nations affairs has stood as the authoritative resource for scholars students and practitioners researching the latest developments of that august body from the insightful introduction

prepared each year by a distinguished expert on un affairs to the full text presentation of reports and resolutions and the helpful subject index aruna provides a practical tour of each year s u n actions and debates the expert selection of documents by joachim muller and karl sauvant and the topic based organization of those documents make any researcher s task much easier than the vast searching sorting and pruning required by the u n s website the series topic based organization of the materials and subject index lend invaluable guidance to all researchers aruna presents comprehensive documentation of the work of the un on an annual basis starting in september of each year with the beginning of the regular sessions of the general assembly coverage of the un s key organs is provided including the general assembly the security council the economic and social council ecosoc the international court of justice and the un secretariat in addition selected reports of intergovernmental bodies and expert groups are included solely official un documentation is used aruna occupies a special place in the publications on the work of the un as it allows readers to obtain an overview of the principal developments in its key organs this makes it an important reference source for policy makers and academic researchers b the 2009 2010 volumes this year s edition continues to focus on the world financial crisis and the reaction of the united nations and the international financial system to that crisis the overview to this year s edition written by joachim muller and karl sauvant examines the changing role of the united nations and explores ways in which the management of the financial crisis has impacted that role the introduction to this year s edition also examines the effects of this crisis this introduction is drawn from the report of the commission of experts of the president of the united nations general assembly on reforms of the international monetary and financial system as well as a slightly edited version of a preface to that report written by professor joseph e stiglitz the introduction discusses the findings of the commission and proposes the creation of a new institution a global economic coordination council which would be supported by an international panel of experts with a geographically diverse membership that would represent the interests of emerging and developing countries as well as those of developed countries dr joseph e stiglitz who served as chairman of the commission and wrote the preface to the commission s report holds joint professorships at columbia university s economics department and its business school he is also co founder and co president of the initiative for policy dialogue from 1997 to 2000 he was the world bank s senior vice president for development economics and chief economist from 1995 to 1997 he served as chairman of the u s council of economic advisers and as a member of president clinton s cabinet from 1993 to 1995 he was a member of the council of economic advisers he was previously a professor of economics at stanford princeton yale and all souls college dr stiglitz is also a leading scholar of the economics of the public sector and was awarded the nobel prize in economics in 2001 in addition to the american economic association s biennial john bates clark award in 1979 his recent publications include freefall america free

markets and the sinking of the world economy 2010 making globalization work 2006 fair trade for all 2005 and globalization and its discontents 2002 the 2009 2010 volumes of aruna therefore also devote considerable attention to the financial crisis as well as other international crises among the documents in the 2009 2010 volumes are the complete general assembly resolutions as well as the report and resolutions of the security council and the economic and social council ecosoc annual reports of note include reports of the united nations children s fund unicef the un development programme and un population fund the un high commissioner for human rights the un high commissioner for refugees the un relief and works agency for palestine refugees in the near east and the world food programme mr muller and dr sauvant have also selected progress reports on key peacekeeping peace building and political missions including those for afghanistan the democratic republic of the congo haiti iraq the middle east sudan and west africa c volume ii this volume this volume contains the following chapter 1 general assembly fourth session continued 3 resolutions adopted by the general assembly at its sixty fourth session continued resolutions 64 104 through 64 199 d guest authors of previous years editions each annual edition of aruna is introduced by a guest author a distinguished expert on un affairs who highlights the outstanding themes of the year in review together with an overview provided by the editors this introduction is intended to facilitate access to the material and above all to make it easier for users of aruna to see the forest for the trees this year s aruna includes excerpts from the report of the commission of experts of the president of the united nations general assembly on reforms of the international monetary and financial system 21 sept 2009 and from a slightly edited version of a preface to that report written by professor joseph e stiglitz however the roster of distinguished experts who have contributed this introduction in the past is also worthy of mention jose antonio ocampo aruna 2008 2009 edition professor jose antonio ocampo is co president of the initiative for policy dialogue he is also professor in the school of international and public affairs and fellow of the committee on global thought at columbia university professor ocampo previously held the positions of under secretary general of the united nations for economic and social affairs executive secretary of the united nations economic commission for latin america and the caribbean and minister of finance agriculture and planning of colombia in 2009 he was a member of the commission of experts of the president of the united nations general assembly on reforms of the international monetary and financial system professor ocampo is also the author of numerous books and articles on macroeconomics policy and theory economic development international trade and economic history his recent publications include stability with growth macroeconomics liberalization and development with joseph e stiglitz shari Spiegel ricardo French davis and deepak nayar new york oxford university press 2006 jeffrey d sachs aruna 2007 2008 edition professor jeffrey d sachs is director of the earth institute at columbia university and special advisor to the secretary general of the un on the

millennium development goals professor sachs s introduction to aruna 2007 2008 was titled towards a new global protocol on climate change in which he argued that solving the climate change problem will demand four steps scientific consensus public awareness the development of alternative technologies and a global framework for action he dealt in particular with the science underpinning the negotiations for a new global protocol on climate change as a successor to the kyoto protocol professor sachs argued that climate change crises can only be solved through the goals leadership and treaty mechanisms of the un

edward c luck aruna 2006 2007 edition professor edward c luck is un special advisor on the responsibility to protect and vice president and director of studies at the international peace academy from 1984 to 1994 he served as president and chief executive officer of the un association of the usa una usa professor luck s introduction to aruna 2006 2007 covered the responsible sovereign and the responsibility to protect in which he addressed the scope and content of what was agreed at the 2005 world summit the implications of the responsibility to protect rtop for notions of state sovereignty and some of the conceptual architectural and policy challenges then facing un secretary general ban ki moon s commitment to operationalizing the responsibility to protect and translating it from words to deeds

louise frechette aruna 2005 2006 edition ms louise frechette is distinguished fellow at the centre for international governance innovation waterloo ontario until march 2006 she was the first deputy secretary general of the un before that she was permanent representative of canada to the un ms frechette s introduction to aruna 2005 2006 covered united nations reform an unfinished story as the first deputy secretary general of the un ms frechette was uniquely positioned to undertake a personal assessment of what has changed and what has not changed in the past decade at the un and why she examined if the un is functioning better than it was 15 years ago why reform is so difficult to achieve and what the future holds for the institutions

rubens ricupero aruna 2004 2005 edition mr rubens ricupero is dean of the fundacno armando alvares penteado faap sao paulo and was formerly secretary general of un conference on trade and development unctad and minister of finance of brazil mr ricupero s introduction to aruna 2004 2005 covered the difficulty of building consensus in an age of extremes and examined the mysteries of the negotiating process leading to the outcome of the 2005 world summit rather than a grand bargain of a comprehensive un reform in the areas of development security and human rights it is argued that the summit ended more on a note of lamentation and regret over a missed opportunity mr ricupero concludes that contrary to the daring proclamation at the outset by the secretary general the conditions indispensable to succeed were not in place indeed it was hard to imagine that an ambitious and balanced reform package for the un could have had any real chance of succeeding

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