

## 101 Outer Space Projects For The Evil Genius

The Planets 101 is required reading for every young astronomer and future astronaut! This educational and entertaining board book takes a dazzling look at our solar system - from the 800 degree days on Mercury to the 1,000 mile winds on Neptune. The Planets 101 will amaze young and old with unbelievable photos and facts, presented in a unique, panoramic fold-out format providing an incredible view of the entire solar system. The Planets 101 makes a great gift for every young explorer.

Presents a selection of experiments and activities designed to teach the principles of aviation and space science, including making a glider, constructing flight instruments, and designing and building a simple rocket.

**CREATE FIENDISHLY FUN SPY TOOLS AND COUNTERMEASURES** Fully updated throughout, this wickedly inventive guide is packed with a wide variety of stealthy sleuthing contraptions you can build yourself. 101 Spy Gadgets for the Evil Genius, Second Edition also shows you how to reclaim your privacy by targeting the very mechanisms that invade your space. Find out how to disable several spy devices by hacking easily available appliances into cool tools of your own, and even turn the tables on the snoopers by using gadgetry to collect information on them. Featuring easy-to-find, inexpensive parts, this hands-on guide helps you build your skills in working with electronics components and tools while you create an impressive arsenal of spy gear and countermeasures. The only limit is your imagination! 101 Spy Gadgets for the Evil Genius, Second Edition: Contains step-by-step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying principles behind the projects Removes the frustration factor--all required parts are listed Build these and other devious devices: Spy camera Infrared light converter Night vision viewer Phone number decoder Phone spammer jammer Telephone voice changer GPS tracking device Laser spy device Remote control hijacker Camera flash taser Portable alarm system Camera trigger hack Repeating camera timer Sound- and motion-activated cameras Camera zoom extender

Traces the development of artificial satellites from the rise of rocketry, discussing the historical importance of Sputnik and describing what modern satellites are used for.

"Historically, strategic restraint was the dominant approach among nations active in outer space, all of whom understood that continued access to and use of space required holding back on threats or activities which might jeopardize the status quo of peace in space. However, recently there has been a discernible shift in international rhetoric towards a more offensive approach to defense in space. The U.S. move towards establishing a "Space Force" has been echoed by similar announcements in France and Japan. India launched an anti-satellite weapon test and announced proudly that it thereby joined the elite group of China, Russia and the U.S., who have all demonstrated this capability in the past. And as technologies in space advance, along with our terrestrial dependence on space-based systems for our peaceful civilian lives and for support of terrestrial warfare, the political stability of this vulnerable environment comes under threat. These factors, combined with a lack of transparency about actual capabilities and intentions on the part of all major players in space, creates a cyclical escalation which has led some commentators to describe this as a return to a Cold War-type arms race, and to the foreseeability of a space-based conflict. Due to many unique characteristics of the space domain, an armed conflict in space would be catastrophic for all players, including neutral States, commercial actors, and international civil society. Due to the specificity of the space domain, specialized expertise must be provided to decision-makers, and interdisciplinary opinions must be sought from a multitude of stakeholders. To that end, this volume provides a wide spectrum of perspectives from experts who have engaged together at a conference hosted by the Center for Ethics in the Rule of Law to discuss these issues. Ethical, legal and policy solutions are offered here by those with experience in the space sector, including academia, legal practitioners, military lawyers and operators, diplomats and policy advisors"--

**So Many Fiendishly Fun Ways to Use the Latest Arduino Boards!** Fully updated throughout, this do-it-yourself guide shows you how to program and build fascinating projects with the Arduino Uno and Leonardo boards and the Arduino 1.0 development environment. 30 Arduino Projects for the Evil Genius, Second Edition, gets you started right away with the simplified C programming you need to know and demonstrates how to take advantage of the latest Arduino capabilities. You'll learn how to attach an Arduino board to your computer, program it, and connect electronics to it to create your own devious devices. A bonus chapter uses the special USB keyboard/mouse-impersonation feature exclusive to the Arduino Leonardo. 30 Arduino Projects for the Evil Genius, Second Edition: Features step-by-step instructions and helpful illustrations Provides full schematic and construction details for every project Covers the scientific principles behind the projects Removes the frustration factor--all required parts are listed along with sources Build these and other clever creations: High-brightness Morse code translator Seasonal affective disorder light Keypad security code Pulse rate monitor Seven-segment LED double dice USB message board Oscilloscope Tune player VU meter LCD thermostat Computer-controlled fan Hypnotizer Servo-controlled laser Lie detector Magnetic door lock Infrared remote Lilypad clock Evil Genius countdown timer Keyboard prank Automatic password typer Accelerometer mouse

The past five decades have witnessed often fierce international rivalry in space, but also surprising military restraint. Now, with an increasing number of countries capable of harming U.S. space assets, experts and officials have renewed a long-standing debate over the best route to space security. Some argue that space defenses will be needed to protect critical military and civilian satellites. Others argue that space should be a "sanctuary" from deployed weapons and military conflict, particularly given the worsening threat posed by orbital space debris. Moltz puts this debate into historical context by explaining the main trends in military space developments since Sputnik, their underlying causes, and the factors that are likely to influence their future course. This new edition provides analysis of the Obama administration's space policy and the rise of new actors, including China, India, and Iran. His conclusion offers a unique perspective on the mutual risks militaries face in space and the need for all countries to commit to interdependent, environmentally focused space security.

The concept of the common heritage of mankind is one of the most extraordinary developments in recent intellectual history and one of the most revolutionary and radical legal concepts to have emerged in recent decades. The year 1997 marks the thirtieth anniversary of the advent of the concept in the domain of public international law. Ever since its emergence, it has become evident that no other concept, notion, principle or doctrine has brought as much intensive debate, controversy, confrontation and speculation as the common heritage phenomenon did. This is because it is a philosophical idea that questions the regimes of globally important resources regardless of their situation, and requires major changes in the world to apply its provisions. In other words, the application and enforcement of the common heritage of mankind require a critical reexamination of many well-

established principles and doctrines of classical international law, such as acquisition of territory, consent-based sources of international law, sovereignty, equality, resource allocation and international personality. This book aims to explore the legal theory and implications of the concept of the common heritage of mankind. It addresses almost all aspects of the concept in the light of the experience of three decades. The author takes into account the elements of the common heritage concept in the fields of jurisprudence, outer space law, the law of the sea, the law of Antarctica, international environmental law, human rights and general principles of public international law. It tries to develop a normative framework through which the concept may offer alternatives for the governance of the global commons.

A collection of craft ideas for kids that create a minimum of mess.

Special edition of the Federal register, containing a codification of documents of general applicability and future effect as of July 1 ... with ancillaries.

**EVIL NEVER SOUNDED SO CLEAR** Listen up! Telephone Projects for the Evil Genius has everything you need to build and customize both wired and wireless phone gadgets that not only save you money, but also improve the quality of your life! Using easy-to-find parts and tools for creating both retro and modern phone projects, this do-it-yourself guide begins with some background on the development of the landline phone and the cell. You'll review basic building techniques, such as installing components, building circuits, and soldering. Then you'll dive into the projects, which, while they range from easy to complex, are all designed to optimize your time and simplify your life! Telephone Projects for the Evil Genius: Features step-by-step instructions for 40 clever and practical phone projects, complete with 150 how-to illustrations Shows you how to enhance both wire-connected phones and cell phones Leaves room for you to customize your projects Removes the frustration-factor-all the parts you need are listed, along with sources From simple phone gadgets to sophisticated remote control devices, Telephone Projects for the Evil Genius provides you with all the schematics, charts, and tables you need to complete such fun projects as: Ringing phone light flasher Telephone amplifier Telephone ring-controlled relay Remote telephone bell project Touch tone generator Phone voice scrambler Caller ID decoder project TeleAlert phone pager and control Wireless remote phone ringer Conferencer And much more!

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

This book examines the background and context of Latin America's political and socioeconomic landscape with a focus on space activities. Firstly, it discusses Latin America's contribution to this sector from an international relations perspective, and explores the debates around the establishment of a Latin American Space Agency. It then highlights space-related capacity building, Latin America's participation in UNCOPUOS, and international space activities, agreements, and initiatives in Latin America. The second part is devoted to the national space infrastructures and space activities of Latin American states. It analyzes various spacefaring countries in the context of their intra-regional space relations and initiatives as well as their bi-lateral cooperation programs. This timely book is of interest to scholars and professionals working in the space field, especially those in Latin America and other emerging countries.

Explore the curiosities of our galaxy! Too often, textbooks obscure the beauty and wonder of outer space with tedious discourse that even Galileo would oppose. Astronomy 101 cuts out the boring details and lengthy explanations, and instead, gives you a lesson in astronomy that keeps you engaged as you discover what's hidden beyond our starry sky. From the Big Bang and nebulae to the Milky Way and Sir Isaac Newton, this celestial primer is packed with hundreds of entertaining astronomy facts, charts, and photographs you won't be able to get anywhere else. So whether you're looking to unravel the mystery behind black holes, or just want to learn more about your favorite planets, Astronomy 101 has all the answers--even the ones you didn't know you were looking for.

**BLAST OFF TO THE FINAL FRONTIER WITH 101 OUT-OF-THIS-WORLD PROJECTS YOU CAN EASILY BUILD YOURSELF!** The sky is not the limit! If you yearn to touch the stars, 101 Outer Space Projects for the Evil Genius has everything you need to explore the universe from the comfort of your own home. Whether you're a beginner stargazer or a more experienced astronomer, you'll find an outstanding project to satisfy you, from model rockets and celestial maps to space robots, GPS systems, and much, much more. Full of easy-to-follow plans and clear schematics for each project, as well as lists of materials and tools so you know exactly what's involved before you begin, 101 Outer Space Projects for the Evil Genius 400 dazzling illustrations that let you build each of the 101 amazing how-to projects visually First-hand experiences and case studies to help you make the most out of each project Frustration-factor removal-needed parts are listed, along with sources 101 Outer Space Projects for the Evil Genius provides you with all the plans, instructions, parts lists, and sources you need to: Use GPS systems Experiment with model rockets Navigate your way through the universe using your computer Build your own telescope, radio telescope, and planetarium Read celestial maps of heavenly bodies Create a Mars rover to explore your home Design your own International Space Station 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 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 I (this volume)** This volume contains the following:

**Note:** ARUNA 2009/2010 Overview: The United Nations Year 2009/2010: Shift from center stage - Joachim Muller and Karl P. Sauvant

**Introduction:** The United Nations and the international financial crisis: Extracts from the final report produced by 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 from a preface written by Joseph E. Stiglitz

**Calendar of Conferences and Meetings of the United Nations, 15 September 2009 to 16 September 2010**

**List of Abbreviations**

**Chapter 1: General Assembly, Sixty-fourth Session**

**1. Statement to the General Assembly by Mr. Ali Abdussalam Treki, President of the General Assembly, following the opening of the sixty-fourth session, A/64/PV1, 15 September 2009**

**2. Agenda of the sixty-fourth session of the General Assembly, A/64/251, 18 September 2009, and Add.1, 1 December 2009**

**3. Resolutions Adopted by the General Assembly at Its Sixty-fourth Session (Resolutions 64/1 through 64/103)**

**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 Ffrench-Davis and Deepak Nayyar (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

In this era of globalization, the world is facing a host of challenging security problems—from the proliferation of weapons of mass destruction to international terrorism to accelerating climate change to energy security—that cannot be resolved unilaterally, especially through the unilateral use of military force. One key issue that requires urgent global attention is literally "out of this world": the military use of outer space. This collection of essays by leading Russian experts analyzes the current military use of outer space. The book describes the space weapons programs of various countries. It details the history of negotiations to

prevent, or at least control, the weaponization of space, including analyses of the political, military, technical, and legal problems facing negotiators trying to avoid a catastrophic new space race.

The United Nations currently has five effective international space treaties, namely the Outer Space Treaty of 1967, Space Rescue Agreement of 1968, Space Liability Convention of 1972, Space Registration Convention of 1975, and Moon Agreement of 1979. However, with recent competition and movements to mine and exploit natural resources from such entities as the moon, asteroids, etc., these outdated treaties no longer address current advancements. It is imperative that new research is undertaken to urge and progress new space laws and policies that strengthen international cooperation and joint undertakings into the exploitation of natural resources from outer space. *Global Issues Surrounding Outer Space Law and Policy* grants a general understanding for the current issues and methods of solution in the field of outer space law and policy in the global society. It suggests a revision of the five international space treaties and presents a new International Space Agency (ISA) that would use international cooperation and an International Court of Air and Space Law to promote the speed of work and fairness in trials of air and space law cases. Additionally, solutions for the cooperation of the global community towards joint undertakings and exploitation of natural resources in celestial bodies is explored. This book is ideal for lawyers, professors, government officials, space agencies, academicians, researchers, students, and anyone looking to understand the complicated problems and methods of solution in international space law and policy.

Spaceflight is a rational undertaking, yet full of emotions. It is a dream of mankind and a multi-billion industry likewise. It is subject to a distinct branch of law – and moreover part of modern pop culture. In short: spaceflight is fascinating. “Outer Space in society, politics and law” is an inter-disciplinary approach to the understanding of modern space law. Technical, cultural and historical aspects lay the foundation for a sound comprehension why space law norms have been established and what they mean in practice. The reader will realize the impact space and spaceflight have on society – from Stonehenge to climate change. A new approach to presenting space law: comprehensive and illustrative. “We live in a society absolutely dependent on science and technology and yet have cleverly arranged things so that almost no one understands science and technology. That's a clear prescription for disaster.” Carl Sagan

Includes, beginning Sept. 15, 1954 (and on the 15th of each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Also issued separately.

101 Outer Space Projects for the Evil Genius McGraw Hill Professional

This account of the evolution of outer space law examines key issues that fuel the debates over sovereignty and property rights designed to govern the future colonization and use of heavenly bodies other than our own. • 15 illustrations

Given the near incomprehensible enormity of the universe, it appears almost inevitable that humankind will one day find a planet that appears to be much like the Earth. This discovery will no doubt reignite the lure of interplanetary travel. Will we be up to the task? And, given our limited resources, biological constraints, and the general hostility of space, what shape should we expect such expeditions to take? In *Robots in Space*, Roger Launius and Howard McCurdy tackle these seemingly fanciful questions with rigorous scholarship and disciplined imagination, jumping comfortably among the worlds of rocketry, engineering, public policy, and science fantasy to expound upon the possibilities and improbabilities involved in trekking across the Milky Way and beyond. They survey the literature—fictional as well as academic studies; outline the progress of space programs in the United States and other nations; and assess the current state of affairs to offer a conclusion startling only to those who haven't spent time with Asimov, Heinlein, and Clarke: to traverse the cosmos, humans must embrace and entwine themselves with advanced robotic technologies. Their discussion is as entertaining as it is edifying and their assertions are as sound as they are fantastical. Rather than asking us to suspend disbelief, *Robots in Space* demands that we accept facts as they evolve.

Have some thoroughly green evil fun! This wickedly inventive guide explains how to create a variety of practical, environmentally friendly items you can use for yourself or resell for profit. *Recycling Projects for the Evil Genius* is filled with detailed directions on how to successfully complete each green project and discusses important safety issues. Using easy-to-find components and tools, this do-it-yourself book shows you how to brew up green cleaners, transform all types of paper into building materials, safely rid your home and yard of pests, and much more--all on the cheap! *Recycling Projects for the Evil Genius*: Features step-by-step instructions and helpful illustrations Covers essential safety measures Reveals the scientific principles behind the projects Removes the frustration factor--all required parts are listed, along with sources Make your own green: Household cleaners Laundry soap Citrus oil extract Pest and weed control solutions Recycled plastic lumber and landscape blocks Recycled asphalt shingle paver bricks and road patch compound Concrete paper mache blocks, garden walls, stepping stones, and structures Solar-powered composter Garden-friendly charcoal And more Each fun, inexpensive, and slightly wicked Evil Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze.

It is the eve of outer space development, but few people are aware of this. In the absence of awareness, people cannot prepare for the opportunities that will arise; and so the vast wealth likely to flow to Earth from outer space will cause ever-greater inequality and instability in our already unequal and unstable world. This book is a call to educators to factor equality and diversity into the process of outer space development by creating a widespread movement to teach outer space development studies to all students, especially those who study social and behavioral sciences. In calling for this, the author is also putting out a call to visionary thinkers to increase public awareness that outer space is already in the process of being developed. Her objective is to provide a pedagogical approach aimed at mending the knowledge gap. If we fail in this objective, we are more likely than ever before to witness ever-widening gaps of social and financial inequality. The first question that will arise as we embark on this process, of course, will be: Why outer space development? People often ask where the money will come from to develop outer space. Platinum-group metals such as iridium and osmium, and various other valuable untapped natural resources, have been discovered in abundant quantities and are likely to be mined by companies. The discovery of natural resources has sparked development projects in the past. These historical patterns of human behavior are occurring again today, as companies speed up the process of private spaceship development. A myriad of space laws and policies are already in place to support space commercialization. Recently, the 2010 NASA Authorization Act and various other laws and policies initiated by the US government have placed on the agenda plans to build advanced space transportation systems; to privatize spacecraft development; to create commercial space habitats, space stations, and space settlements; to initiate commercial space mining; to investigate spacecraft trajectory optimization for landing on near-Earth asteroids; to engage in commercial spaceport construction and interstellar-

interplanetary-international telecommunications; and to launch space exploration missions to near-Earth asteroids, the Moon, Mars, and Mars's moons. US initiatives have in the past been mirrored by the international community, and we can expect to see similar patterns arising on a global scale – indeed, as this book will demonstrate, they already are. The global community is experiencing economic recession, natural disasters, lack of opportunity, employment anxiety, failing K-12 programs, widening inequality gaps, uprisings, revolutions, revolts, unmet educational goals, and a general failure to uplift, inspire, and provide meaningful opportunities for significant portions of our population. People need something that will allow them to focus anew their talents, energies, abilities, and gifts, and use this bleak climate as an opportunity for positive change. Outer space development is emerging as an answer to this state of crisis. The question is: To whom will the benefits accrue? Many strategic decisions have already been taken regarding space development of which the global general public is unaware. Once legal rights to space resources are granted, only those with the capital to take advantage of new laws and policies will be in a position to profit from the new space industries. Only those who are in a position to “know” about outer space development will be in position to take advantage of the opportunities. It is important to remember that the global general public has for several decades been paying the start-up costs for space exploration research, science, and technology. It's not too late to factor in equality before an infrastructure of inequality is forever with us as we venture to establish the final frontier.

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