

CURRICULUM VITAE: RAM S. JAKHU
(Shorter version)

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1. PERSONAL INFORMATION

Full Name: Ram Sarup Jakhu

Position: Associate Professor (tenured), Institute of Air and Space Law, Faculty of Law; McGill University

Address: 3690 Peel Street, Room 200, Montreal, Quebec, Canada, H3A 1W9.

Citizenship: Canadian

2. ACADEMIC AWARDS AND QUALIFICATIONS

2016: Received the “**Leonardo da Vinci Life-Long Achievement Award**” from the International Association for the Advancement of Space Safety;

2011: Received the “**Social Sciences Book Award**” for my edited book entitled *National Regulation of Space Activities* (Springer, 2010) from the International Academy of Astronautics;

2007: Received the “**Distinguished Service Award**” for significant contribution to the development of space law from International Institute of Space Law – the top international professional association of space law experts;

1983: Doctor of Civil Law (D.C.L.); Outer Space Law and Law of Telecommunications; McGill University, Montreal, Quebec, Canada (**Dean's Honours List**);

1978: Master of Laws (LL.M.); Air and Space Law; Government Regulation of Air Transport in Canada and U.S.A., McGill University;

1972: LL.M.; Public and Private International Law, Constitutional Law, Jurisprudence, Hindu

Law, and Legal History; Panjab University, Chandigarh, India (**Merit Scholarship**);

1971: Member of Punjab and Haryana Bar;

1970: Bachelor of Laws (LL.B.); Laws of India (Common Law System); Panjab University;

1967: Bachelor of Arts (B.A.); Economics, Political Science and English; Panjab University.

3. EMPLOYMENT AND PROFESSIONAL EXPERIENCE

1 June 2016-31 July 2017: **Director**, Institute of and Centre for Research in, Air and Space Law, McGill University, Montreal, Canada. (**Full-time position**), directed the world's leading graduate level program in air and space law.

Since June 2008: **Associate Professor, Faculty of Law**, McGill University, (**Full-time tenured position**). Teach and conducts research in international space law, law of space applications, law of space commercialization, space security, space safety, national regulation of space activities, law of telecommunications, and public international law and head a multi-million dollars research and outreach program for space law and policy.

Aug. 2006-May 2016: **Associate Director**, Centre for Research in Air and Space Law, Faculty of Law, McGill University.

Sept. 2003-May 2008: **Associate Professor, Faculty of Law**, McGill University, Montreal, Canada. (**Full-time tenure track position**).

1999 to 2004: **Director of the Centre for the Study of Regulated Industries**, directed the activities of the Centre, specially its collaborative research project (with a budget of \$1.2 million) with the Indian Institute of Management for setting up the Centre for Telecom Policy Studies in Ahmadabad, India, and organised several conferences in India and Canada, achieving high efficiency and economy in spending for a period of 5 years (originally project was for 3 years).

Sept. 1998-Aug. 2003: **Associate Professor**, Faculty of Law, McGill University, Montreal, Canada. (**Part-time position**).

1995-98: **Professor and Senior Faculty Member**, (also the Head of the School of Management and Social Sciences and **Director of Master of Space Studies Program**), International Space University, Strasbourg, France, taught various subjects relating to space law and policy, supervised graduate students, spear-headed the development of a unique, international, intercultural and interdisciplinary graduate-level program for space studies. (**Full-time position**)

1990-94: **Assistant Director**, Institute and Centre of Air and Space Law, Faculty of Law, McGill University.

Since 1990: **President, Cyber & Space Telecom, Inc.**, Brossard, Quebec, Canada (a consulting firm specializing in space and telecommunication regulatory matters). www.spacetel.com

1985-86: **Researcher and Consultant**, International Relations Branch, Federal Department of Communications, Ottawa, **(half-time position)**.

1984-91: **University Lecturer**, Faculty of Law, McGill University.

1983-84: **Faculty Sessional Lecturer**, Institute of Air & Space Law; Faculty of Law, McGill .

1978-94: **Senior Researcher (including Post-Doc for 5 years)**, Centre for Research in Air and Space Law, Faculty of Law, McGill University.

4. MEMBERSHIP IN SCHOLARLY AND PROFESSIONAL BODIES

- Member, United Nations Educational, Scientific and Cultural Organization Encyclopaedia for Life Support Systems (UNESCO-EOLSS) sub-committee on The Science of Space, **(since September 2016)**.
- Member, *World Economic Forum's Global Future Council on Space Technologies*, Switzerland. **(2010-2018, reappointed three consecutive terms)**
- Member, *United Nations Group of Experts for Education Curriculum on Space Law*, Office of Outer Space Affairs, United Nations, Vienna. **(Since 2007)**
- Member, Board of Directors, *International Foundation for Aviation and Development*, Montreal, Canada. **(Since 2005)**
- Member, Advisory Board, *Institute for Competitiveness*, Gurgaon, India. **(Since 2010)**
- Member, *Governance Group of the Space Security Index*, Waterloo, Canada. **(2003-2018)**
- Associate Faculty Member, *International Space University*, Strasbourg, France. **(Since 1999)**
- Chairman of the Committee for Legal and Regulatory Issues, Fellow and Member of the Board of Directors of the *International Association for the Advancement of Space Safety (IAASS)*, the Netherlands. **(2006-2016)**
- Member, *Permanent Court of Arbitration*, Advisory Group of Space Law Experts for PCA Optional Rules For Arbitration Of Disputes Relating To Outer Space Activities, The Hague, the Netherlands. **(2009-2011)**
- Member, Board of Directors, *International Institute of Space Law*, the Netherlands. **(1999-2013)**
- Member, *International Advisory Board of the Research Project on Legal Aspects of NEO*, University of Nebraska, Lincoln, USA **(2009)**.

5. PUBLICATIONS

(a) Books (co-authored)

Books in progress:

- Ram S. Jakhu, *Philosophical Foundations of Space Law*, planned for publication by 2020.

Books Published:

115. Ram S. Jakhu, Joseph Pelton and Yaw Nyampong, *Space Mining and its Regulation*, Springer, 2016, pp. 180.
114. Ram S. Jakhu and Joseph Pelton, *Small Satellites and their Regulations*, Springer, 2013, pp.100.
113. Nicolas M. Matte and Ram S. Jakhu, *Law of International Telecommunications in Canada*, Max-Planck Institute, Hamburg, Germany, 1987, pp. 131.

(b) Books (edited/co-edited)

Books Published:

112. Ram S. Jakhu and Joseph Pelton, (eds.) *Global Space Governance: An International Study*, Springer, 2017, pp. 789.
111. Ram S. Jakhu and Paul Dempsey, (eds.) *Routledge Handbook of Space Law*, Taylor and Francis, 2016, pp. 368.
110. Paul Dempsey and Ram S. Jakhu, (eds.) *Routledge Handbook of Public Air Law*, Taylor and Francis, 2016, pp. 350.
109. Ram Jakhu, Yaw Nyampong and Kuan Wei-Chen (eds.), *Global Space Governance*, CRASL, 2015, pp. 778.
108. Ram S. Jakhu, Sanat Kaul, and Kuan-Wei Chen, (eds.) *Emerging Trends in Aviation and Space Applications: Legal, Safety and Policy Issues*, CRASL, McGill, Montreal, 2014, pp. 448.
107. Bhupendra Jasani and Ram Jakhu, (eds.) *Commercialisation of Space – Opportunities and challenges*”, National Institute of Advanced Studies, Bangalore, 2014, pp. 315.

106. Ram S. Jakhu and Kuan-Wei Chen, (eds.) *Regulation of Emerging Modes of Aerospace Transportation*, CRASL, McGill, Montreal, 2014, pp. 358.
105. Ram S. Jakhu, Tommaso Sgobba and Paul Dempsey, (eds.), *The Need for an Integrated Regulatory Regime for Aviation and Space*, Springer, 2011, pp 212.
104. Ram S. Jakhu (ed.), “*National Regulation of Space Activities*,” Springer, 2010, pp. 499. ***This book received the Social Sciences Book Award from the International Academy of Astronautics (IAA).***
103. Joseph Pelton and Ram Jakhu (eds.), *Space Safety Regulations and Standards*, Elsevier Publishing House, the United Kingdom, 2010, pp. 600.

(c) **Major Refereed Papers**

Refereed Papers in Progress:

- Ram S. Jakhu and Kuan-Wei Chen, “Threats to Peaceful Uses of Outer Space: Politics and Law”

Refereed Papers Published:

102. Ram S. Jakhu and Aram Daniel Kerkonian, “Second Independent Review of Canada’s Remote Sensing Space Systems Act,” *Journal of Space Law*, Vol 42:1 (2018).
101. Ram S. Jakhu, Steven Freeland, Kuan-Wei Chen, “The Sources of International Space Law: Revisited,” *67 Zeitschrift Für Luft-und Weltraumrecht, (German Journal of Air and Space Law)*, Jg. 4/2018, pp. 606-667.
100. Ram S. Jakhu, B. Jasani, J. McDowell, “Critical issues related to registration of space objects and transparency of space activities,” *Acta Astronautica*, 143 (2018) 1–15.
99. Ram S. Jakhu, Cassandra Steer, Kuan-Wei Chen, “Conflicts in Space and the Rule of Law,” *66 Zeitschrift Für Luft-und Weltraumrecht, (German Journal of Air and Space Law)*, Jg. 4/2017, pp. 664 -700.
98. Ram S. Jakhu, Yaw Nyampong and Tommaso Sgobba, “Regulatory Framework Organizational and for Space Debris Removal and On Orbit Servicing of Satellites”, 23, *Journal of Space Safety Engineering*, 2017, pp. 129-137.
97. Ram Jakhu, « Une Gouvernance Globale Renforcée De L’espace Extra-Atmosphérique Pour Un Ordre Stable Et Des Bénéfices Accrus » *Annuaire Français De Relations Internationales*, Volume XVIII, 2017, pp. 937-949.

96. Ram S. Jakhu and Kuan-Wei Chen, "The Missing Link in the Global Aviation Safety and Security Network: the Case of Taiwan," *CRASL Occasional Paper*, XX, September 2016, pp. 18.
95. Ram Jakhu and Kuan-Wei Chen, "International law applicable to the use of commercial satellites for military intelligence gathering purposes," *Annals of Air and Space Law*, 2015, pp. 155-180.
94. Ram Jakhu and Yaw Nyampong, "Some Legal Aspects of Space Natural Resources," *Space Law of the European Journal of Law Reform*. Issue 18(1), July 2016, pp. 86-104.
93. Ram Jakhu, Catherine Doldirina and Yaw Otu Mankata Nyampong, "Findings of an Independent Review of Canada's Remote Sensing Space Systems Act of 2005", XXXVII, *Annals of Air and Space Law*, 2012, pp. 399-423.
92. Ram Jakhu and Karan Singh, "Space Security and Competition for Radio Frequencies and Geostationary Slots", 58 *Zeitschrift Für Luft-und Weltraumrecht*,₂ (*German Journal of Air and Space Law*), 2009, pp. 74-93.
91. Ram Jakhu and Maria Buzdugan, "The Role of Private Actors: Commercial Development of the Outer Space Resources, Including Those of the Moon and other Celestial Bodies: Economic and Legal Implications," 6 *Astropolitics*, 2008, pp. 201-250.
90. Ram Jakhu, "Legal Issues Relating to the Global Public Interest in Outer Space", 32 *Journal of Space Law*, 2006, pp. 31-110.
89. Ram Jakhu, "Implementing Global Public Interest in Information Society", 18.1 *Revue québécoise de droit international*, Vol. 18.1, 2005, pp. 172 -184
88. Ram Jakhu, "Twenty Years of the Moon Agreement: Space Law Challenges for Returning to the Moon", 54 *Zeitschrift Für Luft-und Weltraumrecht*,₂ (*German Journal of Air and Space Law*), 2005, pp. 243-260.
87. Ram Jakhu, "Challenges in Regulating Satellite Telecommunications in the Early 21st Century", XXVIII *Annals of Air and Space Law*, 2003, pp. 281 -309.
86. Ram Jakhu, "International Law Regarding the Acquisition and Dissemination of Satellite Imagery", Vol. 29 (No. 1 &2), *Journal of Space Law*, 2003, pp. 65-92.
85. Ram Jakhu, "Safeguarding the Concept of Public Service and the Global Public Interest in Telecommunications", 5(1) *Singapore Journal of International and Comparative Law*, 2001, pp 71-102.

84. Ram Jakhu and Joseph Wilson, "The New United States Export Control Regime: Its Impact on the Communications Satellite Industry", *XXV Annals of Air and Space Law*, 2000, pp. 157-181.
83. Ram Jakhu, "A legal Analysis of the 1985 ITU Space Conference Report" *XLII, International Journal*, 1987, pp. 276-288.
82. Donald M. Fleming, E.D. DuCharme, Ram Jakhu and W. Longman, "State Sovereignty and the Effective Management of Shared Global Resources: Evolutionary Developments in the Regulation of International Telecommunication", *X, Annals of Air and Space Law*, 1985, pp.327-352.
81. Ram Jakhu, "The Evolution of the ITU's Regulatory Regime Governing Space Radiocommunication Services and the Geostationary Orbit", *VIII Annals of Air and Space Law*, 1983, pp.381-406.
80. Ram Jakhu, "Outer Space Activities and Law: A Third World Perspective", *Padjadjaran*, (Jakarta), November 1982, pp.63-85.
79. Irving E. Kaplan and Ram Jakhu, "Global Climate Space Reflector Systems: Some Legal Issues", *VII Annals of Air and Space Law*, 1982, pp. 353-363.
78. Ram Jakhu, "The Legal Status of the Geostationary Orbit", *VII Annals of Air and Space Law*, 1982, pp. 333-352.
77. Ram Jakhu, "Direct Broadcasting via Satellite and a New World Information Order", *8 (2) Syracuse Journal of International Law and Commerce*, 1981, pp. 375-390.
76. Ram Jakhu and Riccardo Trecroce, "International Satellite Monitoring for Disarmament and Development", *V Annals of Air and Space Law*, 1980, pp. 509-527.

(d) Book Chapters:

Book Chapters in Progress:

- "International Cooperation in Space" to be published in Oxford Research Encyclopedia of Planetary Science.

Book Chapters Published:

75. Ram Jakhu *et al*, *Orbital Debris Removal: Policy, Legal, Political and Economic Considerations*, (a collaborated work of IAA Study Group 5.10, edited by Hobe, Smith, Williamson) (IAA, Paris, 2018), pp. 120.

74. Ram Jakhu, John Logsdon and Joseph Pelton, “Space Policy, Law and Security” (updated and revised) in Joseph Pelton and Angie Bukley (eds.), *The Farthest Shore: A 21st Century Guide to Space*, 2nd Edition, International Space University, 2017, pp. 254-276.
73. Ram S. Jakhu, “Canada’s International Cooperation,” in Ciro Arévalo-Yepes and Sylvia Ospina (eds.), *Global Perspectives on Regional Cooperation in Space: Policies, Governance & Legal Tools* (IAA SG 5.11), (2016), pp. 19-39.
72. Ram S. Jakhu, *et al*, “Legal Aspects of Solar Power Satellites,” in Sterns, Patricia Margaret, Tennen, Leslie I. (Eds.) *Private Law, Public Law, Metalaw and Public Policy in Space: A Liber Amicorum in Honor of Ernst Fasan*, (Springer, 2016) pp.17-51.
71. Ram Jakhu, “Regulatory Aspects Associated with Response to Man-Made Cosmic Hazards” in Joseph Pelton and Firooz Allahdadi (eds.), *Handbook of Cosmic Hazards and Planetary Defense*, Springer International Publishing, Switzerland, 2014, pp. 1069-1084.
70. Ram S. Jakhu and Michelle Ancona-Reynolds, “Cooper, John Cobb, Jr.,” in Stephane Hobe (ed.), *Pioneers of Space Law*, 2013, International Institute of Space Law, Brill, 2013, pp. 35-48.
69. Ram Jakhu, “Legal Aspects of Suborbital Personal Flight,” in Walter Peeters and Angie Bukley, (eds.), *Private Access to Space* (Volume 1: Suborbital Flight), 2013, pp. 71- 80.
68. Ram Jakhu, “Regulatory Process for Communications Satellite Frequency Allocations,” in Pelton J., Madry S., Camacho Lara S. (ed.), *Handbook of Satellite Applications: Springer Reference*, Springer-Verlag Berlin Heidelberg, 2013, pp. 272-292.
67. Stephan Hobe, Ram Jakhu, Steven Freeland, Fabio Tronchetti and Peter Stubbe, “Commentary on the 1979 Moon Agreement Outer Space Treaty” in *Cologne Commentary on Space Law*, Volume II, 2013, pp. 325-426.
66. Ram Jakhu, “Transparency and Confidence-Building Measures for Space Security”, in Ajey Lele (ed.), *Decoding the International Code of Conduct for Outer Space Activities*, Pentagon Security International, 2012, pp. 35- 46.
65. Ram Jakhu and Yaw Otu M. Nyampong, “International Regulation of Emerging Modes of Space Transportation”, in Joseph N. Pelton and Ram S. Jakhu (eds.), *Space Safety Regulations and Standards*, Elsevier Publishing House, the United Kingdom, 2010, pp. 215-238.
64. Ram Jakhu, “Regulation of Space Activities in Canada” in Ram S. Jakhu (ed.), *National Regulation of Space Activities*, Springer Publishing House, the Netherlands, 2010, pp. 81-

108.

63. Ranjana Kaul and Ram Jakhu, "Regulation of Space Activities in India" in Ram S. Jakhu (ed.), *National Regulation of Space Activities*, Springer Publishing House, the Netherlands, 2010, pp. 153-198.
62. Ram Jakhu, John Logsdon and Joseph Pelton, "Space Policy, Law and Security" in Joseph Pelton and Angie Bukley (eds.), *The Farthest Shore: A 21st Century Guide to Space*, International Space University, 2009, pp. 202-222.
61. Ram Jakhu, "Iridium-Cosmos Collision and its implications for Space Operations" in Kai-Uwe Schrogl, et al (eds.) *Yearbook on Space Policy: 2008/2009*, Springer, WienNewYork, 2010, pp. 254-275.
60. Steven Freeland and Ram Jakhu, "Commentary on Article II of the Outer Space Treaty" in Stephan Hobe et al (eds.), *Cologne Institute of Air and Space Law Commentary on Space Law*, 2008, pp. 44-63.
59. Ram Jakhu, "The 1967 Outer Space Treaty at its 40th Anniversary," in Anatoly Kapustin and Gennady Zhukov (eds.), *The Contemporary Problems of International Space Law*, Peoples' Friendships University of Russia, Moscow, 2008, pp. 225-244. (also translated into Russian language, pp. 200-224).
58. Ram Jakhu, "International Regulation of Satellite Telecommunications", in K. Tatsuzawa (ed.), *Legal Aspects of Space Commercialization*, 1992, pp. 78 - 101.
57. Nicholas M. Matte and Ram Jakhu, "Legal Issues of the Interception of American Television Signals in Canada", in E.J. Mestmacker (ed.), *The Law and Economics of Transborder Telecommunications*, (Max-Planck Institute Hamburg, West Germany), 1987, pp. 89-114.
56. Ram Jakhu, "Developing Countries and the Fundamental Principles of International Space Law", in Girardot, R.G., et al ed.), *New Directions in International Law*, (Frankfurt), 1982, pp. 351-373.
55. Ram Jakhu, "Space and Satellite Technologies for Disarmament and Development", in David Krieger, (ed.), *Disarmament and Development, the Challenge of the International Control and Management of Dual Purpose Technologies*, (Rotterdam), 1981, pp. 29-49.

(e) **Papers in Conference Proceedings:**

Papers in Progress

- Ram S. Jakhu, Kuan-Wei Chen and Steven Freeland, “The Subjects of International Space Law” for the IISL *Colloquium On The Law Of Outer Space*, October 2019, at Washington, DC, USA.
- Ram S. Jakhu and Kuan-Wei Chen, “Issues and Legal Governance Mechanisms Related to Conflicts in Space,” to appear in the Proceedings of the Workshop on Indo-Pacific security governance, held on 15 Nov 2018, at York University, Toronto.
- Ram S. Jakhu and Steven Freeland, “A Vital Artery or A Stent Needing Replacement? A Global Space Governance System Without The Outer Space Treaty?”, accepted for publication in the Proceedings of the International Institut of Space Law, Bremen, Germany, 1-5 October 2018.

Papers published

54. Steven Freeland and Ram Jakhu, “Promoting Peace From Above? Utilising Space For The Prevention And Prosecution Of Human Rights Violations” in Aram Kerkonian (ed.), *Global Space Governance And The UN 2030 Agenda*, VOL VI, (McGill CRASL, 2018), 21-31.
53. Steven Freeland and Ram S. Jakhu, “Keeping Up With the Neighbours? Reviewing National Space Laws To Account For New Technology (The Australian And Canadian Experience)”, 60th IISL *Colloquium On The Law Of Outer Space*, 2018. 433 – 451.
52. Ram S. Jakhu and Kuan-Wei Chen, “A Holistic Education Curricula for Capacity-Building in Space Law”, VOL XLII, *Annals of Air and Space Law*, 2017 (but appeared in 2018), 273 - 292.
51. Ram S. Jakhu and Joseph N. Pelton, “Space Safety and Global Space Governance,” published in the proceedings of the 9th IAASS Space Safety Conference, 18-20 October, 2017, Toulouse, France.
50. Ram Jakhu and Steven Freeland, “The Relationship between the Outer Space Treaty and Customary International Law,” in *Proceedings of the International Institute of Space Law*, 2016, pp. 183-199.
49. Ram S. Jakhu, “Sixty Years of Development of International Space Law,” in Stephan Hobe (ed.) *Air Law, Space Law, Cyber Law - the Institute of Air and Space Law at Age 90*, (Carl Heymanns Verlag 2016), pp. 75-108.
48. Steven Freeland and Ram Jakhu, “The Applicability of The United Nations Space Treaties during Armed Conflict,” in *Proceedings of the International Institute of Space Law*, 2016, pp. 157-173.

47. Ram S. Jakhu and Joseph N. Pelton on “Regulation of Safety of Space Mining and Its Implications for Space Safety” in the *Proceedings of the 8th IAASS Conference, held at Melbourne, Florida, on 18-20 May 2016*.
46. Steven Freeland and Ram Jakhu, “What’s Human Rights Got to Do with Outer Space? Everything!,” in *Proceedings of the International Institute of Space Law*, 2015, Toronto.
45. Ram Jakhu and Steven Freeland, “The Sources of International Space Law,” in 2013 *Proceedings of the International Institute of Space Law*, IISL, Beijing, 2014, pp. 461-478.
44. Ram Jakhu, “Adequacy of the Law Governing Space Commercialisation”, in Bhupendra Jasani & Ram Jakhu (eds.), *Commercialisation of Space – Opportunities and Challenges*, NIAS, Bangalore, 2014, pp. 131-145.
43. Bhupendra Jasani and Ram Jakhu, “An Overview of Commercialisation of Space,” in Bhupendra Jasani & Ram Jakhu (eds.), *Commercialisation of Space – Opportunities and Challenges*, NIAS, Bangalore, 2014, pp. 3-14.
42. Ram Jakhu and Isavella Maria Vasilogeorgi, “The Fundamental Principles of Space Law and the Relevance of International Law,” in Stephan Hobe and Steven Freeland (Eds.), “*In Heaven as on Earth? The Interaction of Public International Law on the Legal Regulation of Outer Space*,” Institute of Air and Space Law, Cologne University, Cologne, Germany, 2013, pp. 29-30.
41. Ram Jakhu and Steven Freeland, “The Relationship between the United Nations Space Treaties and the Vienna Convention on the Law of Treaties”, *Proceedings of the International Institute of Space Law*, 2012, pp. 375-391.
40. Ram Jakhu, Tommaso Sgobba and M. Trujillo, “An International Civil Aviation and Space Organization” in the *Proceedings of the 4th Conference of the International Association for Advancement of Space Safety*, held from 19 to 21 May 2010, in Huntsville, Alabama, the US.
39. Ram Jakhu, “Are the current international space treaties sufficient to regulate space safety, and establish responsibility and liability?” in *Proceedings of the 2nd IAASS Conference: Space Safety in a Global World*, held on 14-16 May, 2007 in Chicago, USA.
38. Ram Jakhu, “Reforming the Regulatory Regimes governing Telecommunications in Asia” in *Proceeding of the Conference on Asian Cooperation in Space Activities: A Common Approach to Legal Matters*, held on 1-4 August 2006, in Bangkok, Thailand, published in 2007, 14 pages (un-paginated)
37. Ram Jakhu, Maria Buzdugan and Lucy Stojak, “‘Peaceful’ and Military Uses of Outer Space: Law and Policy,” “Policy and Legislative Options Regarding Possible Deployment

- of Further Military Capabilities in Outer Space,” and *Report on the Proceedings of the International and Interdisciplinary Workshop on Militarization of Space*, September 23-24, 2004, McGill University, Montreal, Canada, *XXX Annals of Air and Space Law*, 2005, pp. 555 *et seq.*
36. Ram Jakhu, “United Nations Principles on Outer Space”, in *Proceedings of the United Nations/Nigeria Workshop on Space Law on “Meeting international responsibilities and addressing domestic needs”* held on 21-24 November 2005, in Abuja, Nigeria, pp. 28 *et seq.*
 35. Ram Jakhu, “Regulation of Space Activities in Canada”, in *XXXXVIII Colloquium on the Law of Outer Space*, held in Fukouka, Japan, on 17-21 October 2005, pp. 267 *et seq.*
 34. Ram Jakhu, “Commentary Paper on ‘Space-Based Telecommunications Including Tele-Education & Tele-Medicine: Implications to the Area of Space Law’”, in *Proceedings of the ISRO-IISL Space Law Conference 2005 : Bringing Space Benefits to the Asian Region*, held on 26-29 June 2005 in Bangalore, India, pp. 4.33 *et seq.*
 33. Ram Jakhu, “Policy and Legal Aspects of the Space Launching Sites in Korea”, in *Proceedings of the International Symposium on Space Launch Infrastructure*, May 6-7, 2005, Goheung County, Jeonnam, Korea, pp. 268 *et seq.*
 32. Ram Jakhu and Raja Bhattacharya, “Legal Aspects of Space Tourism” in *XXXXIV Colloquium on the Law of Outer Space*, 2002, pp. 112 *et seq.*
 31. Ram Jakhu, Guy Lachapelle and Manikutty, “Larger Access and New Services to the Rural Areas in Canada and India”, in *Proceedings of the Conference on Switching to High Growth: Issues in Policy and Regulation in the Indian Telecom Sector*, 2002.
 30. Ram Jakhu, “An Analysis of the Indian Communication Convergence Bill (2001)”, in *Proceedings of the Conference on Convergence: Issues and Opportunities in the Indian Telecom Sector*, 2001.
 29. Ram Jakhu, “International Regulatory Aspects of Radio Spectrum Management (Implications for Developing Countries like India)”, in *Proceedings of the 2nd Annual Workshop Held at the Indian Institute of Management*, 2000, pp. 82 *et seq.*
 28. Ram Jakhu and Virginia R. Serrano, “International Regulation of Radio Frequencies for Space Services”, *Proceedings of the Workshop on Telecommunications, Project 2001 on Legal Framework for the Commercial Use of Outer Space*, Berlin, 2000, pp. 41 *et seq.*
 27. Ram Jakhu, “Emerging Legal Issues of Satellite Telecommunications and Broadcasting”, *XXXXIII Colloquium on the Law of Outer Space*, 2000, pp. 428 *et seq.*

26. Ram Jakhu, "Global Mobile Personal Communications Satellite Systems - the International Regulatory Revolution," XXXXI *Colloquium on the Law of Outer Space*, 1998, (with M. Davis)
25. Ram Jakhu, "Application and Implementation of the 1967 Outer Space Treaty", XXXX *Colloquium on the Law of Outer Space*, 1997, pp. 442-448 (presented at the Symposium organized by the UN Office of Outer Space Affairs, March 1997, Vienna, Austria.
24. Ram Jakhu, "New Strategies for Telecommunications Development", *Proceedings of the 1st ISU Symposium on Space of Service to Humanity*, (Strasbourg, 1996), pp. 209 *et seq.*
23. Ram Jakhu, "International Space Co-operation", in *Proceedings of the Korean Conference on Air and Space Law*, 1995.
22. Ram Jakhu, "Legal Aspects of Unilateral Declarations and Measures for Disarmament in Space", in N. M. Matte (ed.), in *Proceedings of the Symposium on Outer Space in the 1990's: The Role of Arms Control; Security, Technical and Legal Implications*, 1992, pp. 185 *et seq.*
21. Ram Jakhu, "ITU's Carrots and Sticks Approach as a Model for an International Organisation to verify Compliance with Disarmament Agreements", in Matte, N.M. (ed.), *Arms Control and Disarmament in Outer Space: Towards a New Order of Survival*, Vol. IV, McGill Centre for Research in Air and Space Law, 1991, pp. 87 *et seq.*
20. Ram Jakhu, "Space Debris in the Geostationary Orbit: Implications for Commercial Space Activities" in *Proceedings of Space Law and Policy Symposium*, held in Tokyo, Japan, on February 26, 1991. A revised version also appeared in XXXIV *Colloquium on the Law of Outer Space*, 1991, pp. 205 *et seq.*
19. Ram Jakhu, "Third World Perspective of the 1985-88 ITU Space WARC", in *Proceedings of the 1989 Annual Conference of the American Society of International Law*, Chicago, pp. 390 *et seq.*
18. Ram Jakhu, "Future of Satellite Telecommunications: A Third World Perspective", in *Proceedings of the 4th Symposium on Outer Space*, United States Space Foundation, Colorado Springs, 1988. A revised version of this article has also been published in *Via Satellite*, July, 1988, p.18 *et seq.*; and in *Space Communications*, July 1988.
17. Ram Jakhu, "The Principle of Non-appropriation of Outer Space and the Geostationary Orbit", XXVI *Colloquium on the Law of Outer Space*, 1983, pp.21 *et seq.*

(f) **Short Articles, Book Chapters and News Reports:**

16. Joseph Pelton and Ram Jakhu, “Concerns that Flow from the Possible Establishing of a 'Space Force' by the U.S.”, Editorial, *The Journal of Space Safety Engineering*, 5 (2018) 132-134.
15. Ram S. Jakhu and Tanveer Ahmad, “he Outer Space Treaty and states’ obligation to remove space debris: A US perspective,” *The Space Review*, 13 November 2017, pp. 6.
14. Ram S. Jakhu and Tanveer Ahmad, “World needs strong space governance system” in *Room, the Space Journal*, #1 (11) Spring 2017, pp. 28-31.
13. Joseph N. Pelton, Ram S. Jakhu and Scott Madry Joseph, “Defending Against Cosmic Hazards?” in *Room, the Space Journal*, #4 (6) Winter 2015/16, 11.
12. Joseph N. Pelton and Ram Jakhu, “International Safety Regulations and Standards for Space Travel and Commerce” in *Journal of British Interplanetary Society*, August 2009, Vol. 62, pp. 294-302. **(peer-reviewed)**
11. Ram Jakhu, “The case for enhanced India-Canada space cooperation”, *25 Space Policy*, January 2009, pp. 9-19. **(peer-reviewed)**
10. Ram Jakhu, “Space Debris: Rising Hazard”, in *Geospatial Today*, July 2009, pp. 42-44; AND “Space Debris: Mitigation Guidelines” in *Geospatial Today*, August 2009, pp. 44-45. **(peer-reviewed)**
9. Ram Jakhu, Tommaso Sgobba, Arndt-Philipp Menzel, and Joseph N. Pelton, “Manifesto for a Safe and Sustainable Outer Space” in *Journal of British Interplanetary Society*, August 2009, Vol. 62, pp. 241-245. **(peer-reviewed)**
8. Ram Jakhu, “Capacity building in Space Law and Space Policy”, June 2009, *Advances in Space Research*, Vol. 44, pp. 1051–1054. **(peer-reviewed)**
7. Ram Jakhu, “The Effect of Globalisation on Space Law” in Stephane Hobe (ed.), *Globalisation – the State and International Law*, 2009, Franz Steiner Verlag, pp. 71-77. **(peer-reviewed)**
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