

# **Ways and Means of Promoting Education in Space Law in Africa**

by

Justine White<sup>1</sup>

## **Introduction**

In this paper I want to tell of how, through a successful partnership between Government, the University, the private sector and a number of supportive and enthusiastic foreign experts, the School of Law at the University of the Witwatersrand, has been able to offer an LL.M course in Space and Satellite Law since 2000. I offer this not as a directive on how to replicate the programme in other universities on the continent but because we have been able to build a successful course which fits coherently within a broader communications law-focused LL.M programme and which has some interesting aspects that other institutions might find useful.

The University of the Witwatersrand (Wits) is one of South Africa's premier English-speaking universities as is situated in Johannesburg. The School of Law at Wits offers a general course-work Master of Laws degree consisting, currently, of four courses (each lasting for a six month semester) and a Research Report of 10 000 words. Students may chose to do a range of courses (there are some 20 courses to choose from) and, they have the option of specializing in a particular area by choosing, for example, a human rights or a commercial law focus in their course selections.

In July 1997, I started teaching an LL.M course in media law, focusing on the constitutional right to freedom of expression. In the course we debated not only general media law issues such as: defamation, hate speech, pornography etc but also electronic media regulation, the right of access to information and to administrative justice. There was a great deal of interest in these issues as South Africa had begun to open up the broadcasting and telecommunications sectors to competition and independent broadcasting and telecommunications regulators had been established<sup>2</sup>.

In 1997, in my professional practice as an attorney, I had begun to specialize in electronic communications issues, specifically, in the regulation of broadcasting and telecommunications. The more I got involved in electronic communications law three things became clear:

- electronic communications had a significant impact on broader socio-economic development in South Africa and was an important economic driver in South Africa and in Africa generally;

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<sup>1</sup> BA LL.B (Wits) LL.M (Yale), Webber Wentzel Bowens Visiting Senior Fellow of Communications Law, Mandela Institute, School of Law, University of the Witwatersrand. Director, Mukwevho Mkhabela Adekeye Inc.

<sup>2</sup> These were the Independent Broadcasting Authority and the South African Telecommunications Regulatory Authority, which, in 2000, were merged to form the Independent Communications Authority of South Africa.

- South African university law schools, as a rule, were not teaching telecommunications and broadcasting law ie electronic communications law. There were one or two courses (mostly at the LL.M level) in Internet law but teaching the regulation of electronic communications itself was not being addressed; and
- there was a desperate need for specialized legal skills in the electronic communications sector given the growth of the sector and lawyers were needed: in government (to formulate policy and draft legislation), in the electronic communications regulators (to deal with licensing, and other regulatory issues) and in the private sector, to represent clients' interests.

I started planning to expand the single Media Law course into three courses: Media Law, Broadcasting Law and Telecommunications Law and former students from the Media Law course (some of whom were working in the sector) indicate their willingness to help get these expanded courses off the ground.

But then I had a chance meeting with the then-Director-General of the Department of Communications ("DOC"), Mr Andile Ncgaba, at a satellite conference at the Centre for Scientific and Industrial Research. Mr Ncgaba mentioned that the South African Government, through the DOC, was interested in funding a space and satellite law course at a university but hadn't settled upon a particular institution as yet.

That chance meeting led to a series of discussions between Wits and the DOC about developing a Wits degree at the LL.M level focusing on communications law issues. We talked about the courses and how they could fit together and came up with the idea of a four-module Communications Law specialization as follows:

- Constitutional Underpinnings of Electronic Communications Law: which would be a re-shaping of the former Media Law course;
- Broadcasting Law: focusing on the regulation of broadcasting in South Africa (the industry comprises public, private and community broadcasters);
- Telecommunications Law: focusing on the regulation of telecommunications in South Africa; and
- Space and Satellite Law.

### Training the Trainers

The DOC, and Mr Ncgaba in particular, was passionate about space issues. It was clear that the DOC wanted South Africa to be involved in space activities and wanted to be involved in capacity building (in science, technology and law) to create a general level of space-related skills in the country to ensure that South Africa's space-related activities could flourish.

We discussed the Space and Satellite Law programme and agreed that it ought ultimately to have a specific communications-law focus while dealing

with the general International law principles of space law to enable lawyers who had taken the course to be able to deal with a number of space law-related issues and not only communications ones.

But there was a problem. While I had studied Public International Law to quite an advanced level in my own legal studies I knew nothing about Space Law specifically. Similarly, my practice as an attorney had allowed me also to develop a theoretical understanding of telecommunications and broadcasting law at a national level, including in respect of satellite issues, but I was not equipped with the necessary knowledge of international communications satellite regulatory issues.

The DOC immediately suggested sending me, together with a member in the Space Directorate within the DOC, for training in space law and to meet the international experts in this area who could assist in developing the course. And that is where the third element of the successful partnership came into play: the issue of supportive international experts.

In mid 1999 we arrived in Rovaniemi, Finland, to do the Certificate in Air and Space Law at the University of Lapland. Professor Andem's focused course covered:

- the technology aspects of space
- the International treaties; and
- a field trip to a satellite telemetry tracking station.

The course included a number of international guest lecturers including Mr Guisepe Barberis of Eutelsat who was teaching on the commercial contractual issues in Space Law.

Following our time in Finland we went to McGill University, to meet with Professor Ram Jakhu from the Institute of Air and Space Law. Mr Jakhu was extraordinarily helpful in making McGill's extensive library available to us and in advising us on how to go about putting a course together and starting to build up a library of relevant Space Law materials.

### Making it Happen:

Back in South Africa, the DOC and Wits cemented their common commitment to providing Space Law education by entering into a formal written contract which provided for the DOC to donate approximately R350 000.00 per annum to Wits to fund:

- 10 bursaries a year for historically disadvantaged students: black people, women and the disabled. These bursaries cover all tuition costs and the relevant course packs for the LL.M specialization in Communications Law. It is important to note that in practice the DOC has been generous in allowing these bursaries to be given to deserving African students too, and besides South African students, students from other African countries including: Senegal, Nigeria, Lesotho, Zimbabwe and the Democratic Republic of Congo have been able to do the degree;

- a Communications law section within Wits' Law Library. We now have an impressive collection of books and journals dealing with communications law issues and we have a number of materials that deal specifically with space law. Our librarian is of the view that it is the most comprehensive Space Law Library on the Continent<sup>3</sup>; and
- visiting lecturers: This funding comprises three aspects:
  - a co-lecturers programme to ensure that the lecturing roles are replicated. The aim of this is to take excellent Black graduates from the LL.M programme and to train them as co-lecturers to ensure that various educational skills are passed on. Thus far a number of Black co-lecturers have been appointed and have been trained in aspects of university teaching, including:
    - drafting an appropriate course curriculum;
    - choosing appropriate reading materials;
    - preparing course packs;
    - preparing lecture notes;
    - giving lectures;
    - facilitating class discussions and debates;
    - setting examinations and essay topics;
    - marking examinations and essay topics;
    - conducting oral examinations; and
    - liaising with external examiners;
  - Wits Communications Law lecturers being able to attend international workshops and conferences. Thus far, we have used this funding to attend: part of the ITU Plenipotentiary meeting in 2002 in Marrakesh, a telecommunications workshop in India and this workshop; and
  - invited foreign guests to come to South Africa to teach. This has been extremely significant and has enabled a number of international guests to come and teach in South Africa (some of whom have come many times) including: Professor Ram Jakhu, Mr Guiseppe Barberis, Mr Jeremy Rose and Ms Katrin Nyman-Metcalf. In the beginning of the program, a number of the classes were taken by the foreign lecturers but as capacity building of local academics has taken place this has become less necessary. Another important aspect of foreign guest lecturers is that the Space and Satellite course has pioneered making use of video-conferencing for teaching purposes. For example Mr Barberis and a colleague from Eutelsat gave a lecture on "the Privatization of International Satellite Organizations" from Paris by way of video-link up with the entire class and a lively real time inter-Continental discussion ensued. While Wits has the facilities for video conferencing, it is extremely expensive. However, we have found that foreign experts were often happy to facilitate their companies or institutions paying for the costs of the video conferencing which has been of great assistance.

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<sup>3</sup> See the annexure which lists the Communications Law-related titles the Wits Law Library had acquired by November 2005.

This funding by the DOC was augmented by a significant donation made to the Wits Law School by one of Johannesburg's leading law firms, Webber Wentzel Bowens ("WWB"), to fund the salary of a Communications Law academic. This enabled me to commit to spending two full days a week at the University and to reduce my attorney's practice from five to three days a week.

Wits' reciprocal obligations were to provide for a Communications Law specialization in its LL.M programme by offering the four courses: Constitutional Underpinnings of Communications Law, Broadcasting Law, Telecommunications Law and Space and Satellite Law and by agreeing to make academic resources available to supervise Research Reports on a Communications Law-related topic. In this regard it is particularly important to note that Wits, in keeping with the right to academic freedom, is entirely at liberty to determine the course content, manner of teaching with regard to the Communications Law course and the DOC and WWB have no influence over course content and the way in which issues are taught at Wits.

#### The Space and Satellite Law Course Curriculum at Wits

Currently, Space and Satellite Law is taught in the second semester, that is, from July to November. Broadly speaking it consists of a number of topics for which readings are assigned<sup>4</sup> that focus initially on general space law issues and later on satellite communications law issues. The course consists of the following topics:

- **An Introduction to Space Technologies.** This topic is usually taught by Mr Mlamli Booi, a South African telecommunications engineer who has served on the country's Independent Broadcasting Authority (as it was then known). Mr Booi is extremely skilled at talking to lawyers (who generally have no technological or scientific background) in a manner that easily explains complex space technologies.
- **An Introduction to Space Applications.** In the past this topic has been taught by Dr Daniel Limpitlaw, a South African environmental mining engineer who specializes in using satellite imagery for: assessing the environmental impacts of mining activities, analyzing geological formations etc. This is useful in giving students a broader idea of space applications apart from satellite broadcasting and telecommunications.
- **International Space Law Treaties.** This topic is covered in at least two seminars and involves an in-depth discussion of International Space Law including: the structures of the United Nations ("UN") and the Committee on Peaceful Uses of Outer Space ("COPUOS"), the various treaties and conventions and the key principles and values underlying these. Throughout this discussion, emphasis is put on the

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<sup>4</sup> The current course outline and reading list is annexed for your ease of reference. Please note that due to the relocation to another province of Ms Joy-Marie Lawrence, who has co-taught the course with me for the past few years, I taught the course alone in 2005.

needs and position of the developing world in general and of Africa in particular.

- **International Satellite Telecommunications Law.** This topic is also covered in at least two seminars and involves an in-depth discussion of the organs and operations of the International Telecommunications Union ("the ITU"), the ITU's procedures in respect of geo-stationary orbital slot positions; the ITU's procedures in respect of spectrum management and spectrum allocations. Again emphasis is put on the needs and position of the developing world in general and of Africa in particular.
- **International Satellite Broadcasting Law.** This topic involves an analysis of a number of international conventions and resolutions on satellite broadcasting and examines, among other issues, the prior consent debate with regard to international satellite broadcasting.
- **Satellite Broadcasting in South Africa.** This topic involves an analysis of South Africa's domestic laws and regulations regarding satellite broadcasting and looks at whether the international debates have been effectively dealt with at the national level.
- **Satellite Telecommunications in South Africa.** This topic involves an analysis of South Africa's domestic laws and regulations regarding satellite telecommunications, including, GMPCS.
- **International Satellite Organizations: Historical and Future Role.** This topic is usually covered in at least two seminars and involves an in-depth discussion of the organs and operations of various International satellite organizations such as: Intelsat, Eutelsat, Inmarsat, Arabsat etc. The aim of this lecture is to explore the practical and theoretical implications of the privatization of these bodies with particular emphasis on whether or not this has implications for the developing world in general and for Africa in particular.
- **Satellite Contracts:** This topic focuses on various commercial aspects of different types of satellite contracts eg for the purchase of space segment, satellite procurement contracts, launch contracts etc. Issues include: service level requirements, insurance, liability etc.
- **Regional and Local Satellite/Space Initiatives.** The aim of this topic is to focus on South Africa and Africa's various space and space law initiatives. This entails examining the provisions of South Africa's Space Affairs Act and South Africa's current space policy process and also an in-depth look at the convention and operating agreement of RASCOM, Africa's regional satellite organization.

#### The Space and Satellite Law Course at Wits: Insights from the Classroom

At Wits (as is the case at African and indeed all other universities) our students are desperate for legal skills that will equip them to get jobs or to improve their marketability once they are in the profession.

The Space and Satellite Law course, to put it mildly, was not a popular choice in the beginning and students doing the LL.M in Communications Law used to question the relevance of the first part of course ie the general principles and instruments of space law - they just could not see the relevance or practical application of it. Perhaps this is universal among space lawyers but there

seemed to be far too many snide comments about "space cadets" doing the rounds.

Many of our students come from extremely disadvantaged communities – I recently had a student who clearly remembered the first time he used a telephone - it was when he turned 18 and had visited his father's place of work. In such communities: no one has a telescope; very few schools teach about space topics, not even the fundamentals such as the planets, the solar system etc; and people cannot afford access to subscription satellite broadcasting. So a career in space law probably seems about as remote as... outer space!

Probably the most important hurdle to overcome in getting the students really engaged is just the crisis of imagination that results from disadvantage – when you cannot imagine that this high tech exciting area of law could have real career opportunities or even have anything to do with you at all. So the chance to engage with engineers and lawyers who have made a career out of space-related activities (our focus was satellite communications) has really changed attitudes and it is extremely gratifying to see students suddenly open up to the opportunities that Space Law brings.

Our students consist of a mix of part time and full time LL.M students and some of our students are already in the Communications Law field: working for the regulator, government, in broadcasting, telecommunications or signal distribution companies, whether public or private, or in private practice with a law firm that does work in the field. The classes are small, averaging 10 students a year (but this has ranged from 3 to 26 students) and this allows for in-depth discussion and ensures that each student is required to participate. The international nature of the course means that African students from all over the Continent get to debate and discuss African concerns regarding space resources. For example, there were students from four African countries (South Africa, Kenya, Lesotho and Zimbabwe) in the class that just completed the course.

In the five years since the course has been running we have built up a pool of graduates who can now go on to contribute immeasurably to the Continent as government policy makers, regulators, in-house legal advisors on space and satellite law issues and this ought to be encouraged by governments employing them and making use of their skills.

#### Space Law Education in Africa - Some Strategic Recommendations:

In order to overcome the challenges faced by a lack of funding, I think that it is time that we harnessed the skills and educational experience that already exists in Africa. Listening to the speakers and particularly to the questions posed over the past few days, I would like to make the following suggestions for people who are interested in ensuring that Space Law is taught in their countries but have no idea where to begin:

- Don't wait for formalized certain funding – it might never come.
- There are some 50 countries in Africa. Of these, 30 have at least one graduate from Mc Gill University's Institute of Air and Space Law. If we

accessed these graduates in teaching or even just in advisory capacities, we could tap into a wealth of knowledge and expertise. There are also graduates from the International Space University and other institutions.

- Make use of resources/people who are available on-line eg space laws and developments (eg Space Law update), the UN Office for Outer Space Affairs, all the speakers which you have met here etc. The advantage of International Space Law is that it does not change radically from year to year. While it is a nice to have, it is not necessary to have a library full of hard copy materials, access to the Internet is sufficient.
- Investigate video conferencing as a means of supplementing teaching and be bold about asking whether the foreign institution could pay the cost thereof.
- If there is a small amount of funding available, use it to access good foreign experts who can: do concentrated teaching (eg on consecutive days), advise on the curriculum, assist with reading lists etc. In my experience, people are often very willing to come and teach and you might even find some who are able to access their own funding to come and teach.
- Stay involved in space law networks, even if you have to do this remotely eg through email discussions and be innovative with the lack of funding.
- Finally, and most importantly, I think it is important to challenge governments in Africa to actually make use of Space Law graduates (whether trained locally or overseas) - include them in delegations (as participants and/or observers) to organizations such as COPUOS, the ITU and regional and continental bodies dealing with communications and other satellite/space law issues including, SADC, ECOWAS, RASCOM etc. Not only will this increase the desire of people to be trained in this area, it will professionalise and increase the effectiveness of government delegations and enable Africa, to be able to promote a developmental agenda in these organizations.

## **Course Outline and Reading List: Space and Satellite Law – 2<sup>nd</sup> Semester 2005**

Classes take place on Tuesdays from 17h30 to 19h00 in Room 41, unless otherwise indicated.

Classes will begin promptly at 17h30.

The course co-ordinator is Justine White, Webber Wentzel Bowens Visiting Senior Fellow in Communications Law at the Mandela Institute, School of Law and director, Mukwevho, Mkhabela and Adekeye Inc.

Justine White

Consultation time: 16h30 – 17h30 on Mondays. Room 137 Wits Law School

Email: [whitej@law.wits.ac.za](mailto:whitej@law.wits.ac.za)

Tel: 717-8421 (available on Mondays and Tuesdays)

Please refer all administrative queries to Ms Mimi Motsiri on 717-8402.

Examinations:

All students will be required to write a term paper (50 %) and undergo a closed book examination (50%) of one and a half hours.

Papers:

Papers are to be approximately 25 typed pages – 1.5 spacing on a Space Law topic. The papers must be in the house-style of the South African Law Journal (the library has copies of the style rules). The topic must be one that has been set or approved by Justine White. The papers are to be handed in to Mimi Motsiri by 15h00 on 25 October 2005. Please note that absolutely no extensions will be granted, as the submission date is so close to the beginning of the examinations period.

Aim of the Course:

This course, the only one of its kind in Africa, is taught with the assistance of visiting lecturers from overseas. As a result, a number of high intensity periods of teaching are often necessary (ie three lectures a week on occasion). Students who wish to complete the course must be prepared to be flexible in this regard. The course is run as a series of lectures/seminars and the discussion is aimed at a high level, with the assumption that all students have completed all the readings. Students will obtain both an understanding of South African and International Space and Satellite Law generally, with a particular emphasis on those aspects relating to communications law.

Seminar One: 19 July 2005

Topic: Introduction to Space Applications ie Different Satellite Uses

Lecturer: Justine White/Dr. Daniel Limpitlaw

Readings:

- Pages 17-24 (incl) of Chapter Two “Boundaries of Outer Space in *An Introduction to Space Law* 1999. Editor Diederiks-Verschoor. Kluwer Law International.

- Prof Jakhu's Space Law Notes
- Chapter 7: "The Development of Space Law from a Third World Perspective" in *Recent Trends in International Space Law and Policy* by Mani, Bhatt and Reddy. Lancers Books
- Chapter 1 and Chapter 2 (upto and incl pg 27 only) in *Launching and Operating Satellites* by R. Bender. Martinus Nijhoff Publishers.

Seminar Two 26 July 2005

Topic: An Introduction to Space Technologies

Lecturer: Mlamli Booi, Independent Communications Consultant and formerly of ICASA

Reading List:

- Pages 35-40 (incl) of Chapter 3: "Satellite Communications" in *Telecommunications Made Easy* by Khumalo. 1988. Raven Press
- Pages 253-262 (incl) of "The International Telecommunications Union and the Geo-Stationary Orbit: An Overview" by Wilson in *Annals of Air and Space Law* 1998 Vol. XXIII.

Seminar Three: 2 August 2005

Topic: International Space Law Treaties - General

Lecturer: Justine White

Reading List:

- Prof Jakhu's Space Law Notes
- 1963 Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space and Underwater
- 1967 Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space Including the Moon and Other Celestial Bodies
- 1968 Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space
- Pages 12-19 of "Achievements of the United Nations in the Establishment of International Space Law by a Series of Space Treaties" in *Unispace III: Technical Forum*. 1999, United Nations.
- Chapter 1 in *Satellite Communications Regulations in the Early 21<sup>st</sup> Century* by Salin. Martinus Nijhoff Publishers.

Seminar Four 16 August 2005

Topic: International Space Law Treaties – General Cont.

Lecturer: Justine White

Reading List:

- Prof Jakhu's Space Law Notes
- 1972 Convention on International Liability for Damage Caused by Space Objects
- 1975 Convention on Registration of Objects Launched into Outer Space
- 1979 Agreement Governing the Activities of States on the Moon and Other Celestial Bodies
- 1986 Principles Relating to Remote Sensing of the Earth from Outer Space

- 1992 Principles Relevant to the Use of Nuclear Power Sources in Outer Space
- 1996 Declaration on International Cooperation in the Exploration and Use of Outer Space for the Benefit and in the Interest of all States, taking particular account of the Needs of Developing Countries.

Seminar Five to Seven 23-25 August 2005 **NOTE THESE ARE TWO HOUR LONG LECTURES EACH IE FROM 17H30-19H30 DAILY.**

Topic: International Satellite Telecommunications Law. Topics to be covered include:

- The Operation of the International Telecommunications Union
- Obtaining a Satellite Slot through the International Telecommunication Union
- Rights and Responsibilities of Satellite Slot Registrants and ITU Radio Rules
- Current issues of Radio Frequency and Orbital Congestion, Developing Country Perspectives

Lecturer: Prof Ram Jakhu, Head, Institute of Air and Space Law, McGill University, Canada.

Reading List

- Professor Jakhu's Notes

#### **EXTRA LONG STUDY BREAK**

Seminar Eight: 19 September 2005

Topic: Satellite Broadcasting: International

Lecturer: Justine White

- 1936 International Convention Concerning the Use of Broadcasting in the Cause of Peace
- 1979 Convention Relating to the Distribution of Programme-carrying Signals Transmitted by Satellite
- 1992 Principles Governing the Use by States of Artificial Earth Satellites for International Direct Television Broadcasting
- Pages 243-254 (incl) of Chapter 9: "Direct Broadcasting Satellites" in *The Law and Regulation of International Space Communication*. White. 1988. Artech House.
- Pages 57-61 (incl) of "Communications Satellites" in *An Introduction to Space Law* Diederiks. 1999. Kluwer Law International
- Prof Jakhu's Space Law Notes

Seminar Nine: 27 September 2005

Topic: Satellite Broadcasting: South Africa

Lecturer: Justine White

Readings:

- Broadcasting Act, 1999 as amended by the Broadcasting Amendment Act 64 of 2002. Chapters: I, III, V, and VII.
- Discussion Paper on Subscription Broadcasting 2005

- “Satellite Broadcasting: Breaking Down the Issues” by Ria Greyling in Free Press March 2002, published by the Media Institute of Southern Africa.
- Turner Broadcasting System, Inc v FCC 512 US ...(1994).

Seminar Ten: 4 October 2005

Topic: Satellite Telecommunications in South Africa

Lecturer: Justine White

Reading List:

- Telecommunications Act: Section 1 (definitions) and Chapter V (Telecommunication Services)
- GMPCS Regulations
- Section 8.3.1.5 (on pages 347-350 incl) in *Satellite Communications Regulations in the Early 21<sup>st</sup> Century* by Salin. Martinus Nijhoff Publishers.
- Pages 385-398: “Mobile Satellite Communications” in *Outlook on Space Law Over the Next 30 Years* by Lafferanderie and Crowther. Kluwer Law International
- “The Future of Regulation of Global Mobile Personal Communications by Satellite: A Farewell to Lex Americana” by Jurgen Cloppenburg in the *Annals of Air and Space Law*. 2000 Vol. XXV

Seminar Eleven and Twelve: 10 and 11 October. **NOTE THESE ARE TWO HOUR LONG LECTURES EACH IE FROM 17H30-19H30 DAILY.**

Topic: International Satellite Organisations: Historical and Future Role

Lecturer: Katrin Nyman-Metcalf

Reading List:

- Pages 132-152 (incl) of Session 5 “The Role of International Organizations in Privatization and Commercial Use of Outer Space” in *Unispace III: Technical Forum*. 1999, United Nations.
- “Special Problems of Privatizing the International Mobile Satellite Organization” by David Soger. *Annals of Air and Space Law*. 2000 Vol XXV
- “Restructured Inmarsat and Public Service Obligations” by Jerzy Vanau in *Annals of Air and Space Law*. 2001 Vol XXVI.
- Chapter 8: “Private Enterprise in Space” in *Activities in Space: Appropriation or Use by Katrin Nyman-Metcalf*

Seminar Thirteen: 17 October 2005

Topic: Regional Satellite/Space Initiatives

Lecturer: Justine White

Reading List:

- Space Affairs Act, 1993
- Convention and Operating Agreement of RASCOM (Regional African Satellite Communications Organization)
- Pages 312-314 (incl) of *International Law, a South African Perspective*. 2<sup>nd</sup> Ed. Dugard. 2000
- Khumalo and Sibanda, *Telecommunications Made Easy* 1998 Ravan Press Chapter 10 pg 90-93.

- Kotze and Steyn "African Elite Perspectives: AU and Nepad" 2003 Konrad Adenauer Stiftung Chapter 4 pg 82-91.

## COMMUNICATIONS LAW/SPACE LAW

### BOOKS

- ACTIVITIES IN SPACE : APPROPRIATION OR USE? /  
KATRIN NYMAN METCALF.  
  
AFRICAN ELITE PERSPECTIVES : AU AND NEPAD : A  
COMPARATIVE STUDY ACROSS  
SEVEN  
AFRICAN COUNTRIES / HENNIE KOTZE, CARLY STEYN.  
  
AFRICAN TELECOMMUNICATION INDICATORS 2001.  
  
ANTITRUST AND NEW MEDIA / VOLUME EDITOR, MIGUEL  
DE AVILLES PEREIRA.  
  
ARBITRATION IN AIR, SPACE AND  
TELECOMMUNICATIONS LAW : ENFORCING  
REGULATORY  
MEASURES : PAPERS EMANATING FROM THE THIRD PCA  
INTERNATIONAL LAW  
SEMINAR,  
FEBRUARY 23, 2001 / EDITED BY THE INTERNATIONAL  
BUREAU OF THE PERMANENT  
COURT OF  
ARBITRATION.  
  
BEYOND OUR CONTROL? : CONFRONTING THE LIMITS  
OF OUR LEGAL SYSTEM IN THE  
AGE OF  
CYBERSPACE / STUART BIEGEL.  
  
BROADCASTING AND THE NATIONAL QUESTION : SOUTH  
AFRICAN BROADCAST MEDIA  
IN AN AGE  
OF NEO-LIBERALISM.  
  
BROADCASTING IN THE EUROPEAN UNION : THE ROLE  
OF PUBLIC INTEREST IN  
COMPETITION  
ANALYSIS / INGRID NITSCHKE.  
  
BROADCASTING POLICY AND PRACTICE IN AFRICA /  
EDITED BY TAWANA KUPE.  
  
BROADCASTING REFORM IN INDIA : MEDIA LAW FROM A

GLOBAL PERSPECTIVE /  
EDITED BY  
MONROE E. PRICE, STEFAN G. VERHULST.

BUILDING DIGITAL BRIDGES : EGYPT'S VISION OF THE  
INFORMATION SOCIETY.

BURKINA FASO : THE RIGHT TO ACCESS INFORMATION -  
AN ESSENTIAL HUMAN  
RIGHT /  
REPORT WRITTEN BY CAROLYN NORRIS, WITH THE  
COLLABORATION OF NEWTON  
AHMED BARRY.

BUTTERWORTHS INFORMATION TECHNOLOGY LAW  
HANDBOOK / CONSULTANT EDITOR,  
JEREMY  
PHILLIPS.

CARLOS CARDOSO : TELLING THE TRUTH IN  
MOZAMBIQUE / PAUL FAUVET AND  
MARCELO  
MOSSE.

THE CHANGING ROLE OF GOVERNMENT IN AN ERA OF  
TELECOMMUNICATIONS  
DEREGULATION :  
BRIEFING REPORT ON TELECOMMUNICATIONS  
REGULATORY ISSUES FOR ELECTRONIC  
COMMERCE  
/ DAVID N. TOWNSEND.

THE COMMODIFICATION OF INFORMATION / EDITED BY  
NIVA ELKIN-KOREN AND  
NEIL  
WEINSTOCK NETANEL.

COMMUNICATION AND DEMOCRATIC REFORM IN SOUTH  
AFRICA / ROBERT B.  
HORWITZ.

COMMUNICATIONS LAW / BY YVONNE BURNS.

COMPILATION OF SELECTED ACTS WITHIN THE  
JURISDICTION OF THE COMMITTEE  
ON  
COMMERCE : COMMUNICATIONS LAW INCLUDING  
COMMUNICATIONS ACT OF 1934 ...  
SELECTED  
PROVISIONS FROM THE UNITED STATES CODE /

PREPARED FOR THE COMMITTEE ON  
COMMERCE,  
U.S. HOUSE OF REPRESENTATIVES.

THE CONSUMER LAW SOURCEBOOK 2000 : ELECTRONIC  
COMMERCE AND THE GLOBAL  
ECONOMY.

CONTROLLING MARKET POWER IN  
TELECOMMUNICATIONS : ANTITRUST VS.  
SECTOR-SPECIFIC  
REGULATION / DAMIEN GERADIN AND MICHEL KERF.

COPYRIGHT AND ELECTRONIC COMMERCE : LEGAL  
ASPECTS OF ELECTRONIC  
COPYRIGHT  
MANAGEMENT / EDITOR P. BERNT HUGENHOLTZ ;  
CONTRIBUTORS KAMIEL J.  
KOELMAN... [ET  
AL.].

CYBERLAW @ SA II : THE LAW OF THE INTERNET IN  
SOUTH AFRICA / REINHARDT  
BUYS,  
EDITOR ; FRANCIS CRONJE, WEB SITE EDITOR.

CYBERLAW @ SA II : THE LAW OF THE INTERNET IN  
SOUTH AFRICA / REINHARDT  
BUYS,  
EDITOR ; FRANCIS CRONJE, WEB SITE EDITOR.

DATA PROTECTION : A PRACTICAL GUIDE TO UK AND EU  
LAW / PETER CAREY.

DATA PROTECTION : LAW AND PRACTICE / BY  
ROSEMARY JAY AND ANGUS  
HAMILTON.

DATA PROTECTION : LAW AND PRACTICE / ROSEMARY  
JAY AND ANGUS HAMILTON.

DEFAMATION : LAW, PROCEDURE AND PRACTICE / DAVID  
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