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Curriculum Vitae

Date and place of birth. 4th April 1952, in Lancashire, England.

Nationality. Dual British and Australian.

Marital status. Single.

Present position.

Reader in the School of Engineering, University of Aberdeen. Previously (August 1995 to September 2005) Senior Lecturer.

Previous positions.

Tutor in Chemistry, Macquarie University, Sydney, Australia, February 1978 to December 1982.

Scientific Officer, Herman Research Laboratory, State Electricity Commission of Victoria, Melbourne, Australia, January 1983 to January 1987.

Senior Lecturer, School of Chemical Engineering and Industrial Chemistry, University of New South Wales, Sydney, Australia (Lecturer, February 1987-June 1991; Senior Lecturer, July 1991 - June 1995).

Previous visiting position.

Research Associate, Department of Mathematics and Statistics, Massey University, New Zealand, January - February 1991.

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Secondary Education.

This was received at Bacup and Rawtenstall Grammar School, Lancashire. 1968 and 1969: Form prizes.

1969: G.C.E. O-level passed in mathematics, physics, chemistry, biology, English language, English literature and history.

1970: Mayor of Rawtenstall's Progress Prize.

1970: University Test in English (with distinction).

1971: E.H. Holden Prize for performance in the sixth form.

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G.C.E. A-level passes in mathematics, physics and chemistry.

1971: Award of a local education authority grant tenable at the University of Leeds for a three-year course of study leading to the B.Sc. degree in chemistry.

Undergraduate Education.

This was received in the School of Chemistry at the University of Leeds.

1971-72: Courses in inorganic chemistry, organic chemistry, physical chemistry and mathematics.

1972-73: Courses in inorganic chemistry, organic chemistry and physical chemistry.

1973-74: Courses in organic chemistry and physical chemistry.

1974: Award of the B.Sc. degree in chemistry with Honours class II(i).

Award of a Science Research Council studentship, tenable in the Department of Physical Chemistry, University of Leeds, for a three-year research programme leading to the Ph.D. degree.

Postgraduate Research Training.

The period October 1974 to September 1977 was spent in the Department of Physical Chemistry, University of Leeds, as a doctoral candidate. The Ph.D. was awarded in December 1977, the thesis title being 'Growth kinetics of yeast surface colonies'. The research work was accompanied by a certain amount of teaching, chiefly in the undergraduate laboratories. The supervisor of the research work was Dr. B.F. Gray, who in 1976 was appointed Professor of Chemistry at Macquarie University, N.S.W., Australia.

The work undertaken for the Ph.D. was an investigation of the growth kinetics of microbial colonies on surfaces. The work therefore has a considerable microbiology content. The point of contact with physical chemistry is that one of the most important factors influencing the kinetics is diffusion, which enables both transport of nutrients to the colony and transport of toxic metabolites from the colony to occur.

The experimental work centred on a flow system, enabling colonies growing on agar gel to experience replenishment of nutrient from a flowing solution in contact with the gel. Under these conditions, exponential growth of the colonies was observed. This contrasts with earlier studies of colonies on surfaces, where exponential growth was precluded by the development of concentration gradients of nutrient.

Even under the conditions of constant nutrient realised by the novel flow system, however, exponential growth did not continue for the entire growth cycle, but was found to be succeeded by a slower phase. The conclusion reached, after considerable experimental and theoretical investigation, was that localised accumulation of metabolite was responsible for the slowing down.

The work was published as a series of three articles in the biomedical journal 'Microbios'.

Tutorship in Chemistry at Macquarie University.

This appointment was made initially for two years, and was subsequently renewed up to and including a fifth year. Teaching responsibilities were considerable. The teaching procedure in the School of Chemistry at Macquarie at that time involved dividing each class into groups of about twelve, each such group being assigned a tutor. The tutor would then be responsible for teaching the entire course to his or her group of twelve: original presentation of the material, tutorial discussion and laboratory classes.

Courses taught in this way during the five-year appointment at Macquarie were chiefly first- and second-year physical chemistry. There were, however, also opportunities for research at Macquarie, and this was in the area of combustion chemistry. During the period 1978-80, work on fundamental ignition theory was performed, culminating in the acceptance of two articles in the international journal 'Combustion and Flame'. Work performed during the period 1980-82 was an experimental study of organic compound oxidation, funded by the Australian Research Committee (A.R.C.). Acetaldehyde and its isomer ethylene oxide were studied in a continuous stirred tank reactor (C.S.T.R.), and types of combustion behaviour including ignition and cool flames were identified and conditions for their occurrence established. A particularly interesting facet of this work was the discovery of an entirely new form of combustion behaviour, since termed the 'type B cool flame', displayed by acetaldehyde-oxygen mixtures under certain conditions. Since its publication, the discovery has stimulated considerable further investigation in Europe and North America.

The experimental combustion work outlined in the previous paragraph was published partly in 'Combustion and Flame' and partly in 'Fuel'. The work was also the subject of conference presentations in Melbourne and Canberra.

Herman Research Laboratory.

The appointment at this institution commenced in January 1983. The Laboratory was concerned largely, though not solely, with research into the properties and utilisation of Victorian brown coals which, for the past eighty years, have been used to provide electricity for the State. (The laboratory now operates as HRL Ltd, having been privatised in the 1990s.)

Two particular projects occupied most of the four years during which this appointment was held. One, entitled 'Brown coal devolatilisation', was funded by the Australian Government under the National Energy Research, Development and Demonstration Programme (N.E.R.D.D.P.). This research was concerned with volatiles released by fine particles of Victorian brown coal subjected to very rapid heating, and with the part played by those volatiles in combustion. The results were published in the proceedings of conferences held in Australia and elsewhere, and aspects of the experimental work were discussed in a short contribution to 'Fuel'. One aspect of this work was of particular environmental interest: the resolution of sulphur dioxide formed during coal combustion into the component due to volatiles combustion and

the component due to residual char combustion. Nitrogen oxide emissions were studied along similar lines.

The second major project during the period at the Herman Research Laboratory was concerned with the surface chemistry of dry brown coal samples. A novel way of measuring swelling due to solvent uptake was developed, and the work published in 'Fuel'.

A further responsibility was the sole authorship of one chapter of 'The Science of Victorian Brown Coal', a monograph edited by Dr. R.A. Durie and published by Butterworth-Heinemann in 1991. Work on the chapter, which deals with pyrolysis of Victorian brown coals, was begun at the Herman Research Laboratory but completed during the appointment at the University of New South Wales.

University of New South Wales.

Duties as Lecturer in the School of Chemical Engineering and Industrial Chemistry were commenced in February 1987, and the post was tenured. Promotion to Senior Lecturer took effect on 1 July 1991. Teaching duties were very substantial. The B.E. and B.Sc. degree programmes offered by the School are four-year programmes. During the appointment, primary lecturing duties were heat transfer in second year and fuel and combustion science and technology in third and fourth years. There was also tutoring of reaction engineering in third year, and lecturing of atmospheric pollution and waste management at MSc level.

The heat transfer lecture course includes steady and transient conduction, free and forced convection, heat exchangers and boiling heat transfer. The principles of radiation heat transfer are also covered. The fuels and combustion courses were concerned with the properties of important solid, liquid and gaseous fuels. They also involved coverage of basic combustion science, including the principles of ignition and flame properties.

Research at the University of New South Wales was in the area of combustion and fire safety, and cellulosic materials accounted for a good deal of the time and funding available. Work on forest litter, relevant to bush fires, received financial assistance from the Forestry Commission of New South Wales and from Sutherland Shire Council, NSW. Ignition experiments on many samples of forest litter, and also fresh samples of various leaves, were performed, and the broad aim of the work, now fully published, was to place the combustion of forest materials within the framework of thermal sciences. Previous work on these materials had not made full use of the concepts of reaction kinetics, heat transfer and ignition criteria, therefore considerable scope for originality was identified at the outset of the project.

By means of the experimental results and application of the methods of ignition theory and heat transfer to them, quantitative rate expressions for the combustion of many samples of forest litter were derived. As a result of a short study leave period spent in the Department of Mathematics and

Statistics at Massey University, New Zealand, some of the latest developments in ignition theory were applied to experimental results on Eucalyptus leaf samples. Semi-quantitative rate expressions for *both* the leaf material combustion *and* the oil combustion were obtained. Also, use has been made of the kinetic information in predicting the effect of an external heat source on forest litter, e.g. a blob of molten metal from an electrical cable dropping on to a bed of litter. Such an occurrence is believed to have started a fatal bush fire in Australia in 1983. The work on combustion of forest materials has been published chiefly as a sequence of articles in 'Journal of Fire Sciences', although some of the earlier work was published in 'Fuel'.

When the work as originally planned, to investigate ignition of forest materials, was complete, a second phase of it was entered into with the help of a further grant from the Forestry Commission. This was concerned with flame propagation, and drew on fundamental principles governing flame spread in open fuel beds. Smouldering combustion was also examined. The work was published as a series of papers in 'Journal of Fire Sciences'.

By reason of a grant from the Australian Wool Corporation, work relevant to the handling and storage safety of wool from the thermal point of view was carried out in 1989-90. Reactivities of many wool samples – greasy and scoured – were determined, and heat transfer measurements made. Whilst this work was carried out entirely in the School of Chemical Engineering and Industrial Chemistry, a second wool project, also funded by the Australian Wool Corporation, involved collaboration with members of the School of Fibre Science at UNSW. This project was concerned with the yellowing of wool in storage, in particular the role played by moisture in such yellowing. At the time the project began in 1990, there was a pressing need in the industry for information on this. Both aspects of the work on wool – the handling safety and the yellowing – are now published in 'Journal of Chemical Technology and Biotechnology'.

Other materials were examined for combustion reactivity and, in some cases, for propensity to spontaneous combustion. Both established and newly developed experimental methods were applied. Materials studied include peat, hops and a number of low-rank coals and coal derivatives, e.g., chars. The interest in coal swelling begun at the Herman Research Laboratory also continued, and the work on this done at UNSW is now published.

A book entitled 'Combustion Science: Principles and Practice' was written during 1992 and the early part of 1993 and published by the Sydney-based (though internationally represented) Millennium Books. It became available for purchase in October 1993. The book is in some ways a hybrid of a general text and a collection of essays or reviews, and is intended to be of use to professionals as well as to students. It includes topics which a physical chemistry student might encounter, including thermal ignition and the hydrogen-oxygen reaction, as well as much of interest to fuel technologists including coal combustion. The book also has a significant environmental dimension. There has been marketing of the book in the UK, the US and

Australia. It has received favourable independent reviews from combustion experts including Professor A. Burgess at University College, London, and Professor S.M. Senkan at the University of California at Los Angeles. Over a decade after its initial appearance the book is being cited by research workers.

University of Aberdeen, August 1995-present.

One of the principal duties of this post to date has been the development of lectures in the MSc Safety Engineering course. Undergraduate teaching has been mainly in Thermodynamics. The MSc teaching has been in atmospheric pollution, solid waste management, process safety and fire and explosions.

An additional activity has been sole authorship of a second book, entitled 'Topics in Environmental and Safety Aspects of Combustion Technology', published early in 1997 by K.H. Whittles of Caithness. The length of the book is 182 pages and the contents include SO_x, NO_x and particulate emissions, utilisation of coal waste and incineration of other wastes including household wastes. The book had been cited a number of times in the research literature and continues to sell almost ten years after its release.

There has also been research into self-heating and reactivity along similar lines to that at the University of New South Wales, and research into coal swelling. A major grant was obtained from the University for the purchase of a microcalorimeter, and this is being used to investigate the low-temperature heat release rates of such substrates as peat and bituminous coals. These endeavours have all led to published work. In particular, there has been major work on improving the current standard test procedures for assessing the propensity to self-heating of coals and carbons. These tests have certain defects which have been identified and, to a very considerable extent, eliminated as a result of the work at Aberdeen. This work was accepted for publication as a series of articles in 'Fuel' and in 'Journal of Loss Prevention in the Process Industries'. In the published work emphasis is given to the new concept of 'heat-release rate at criticality' as an alternative to 'critical ambient temperature' as a quantity on which to base standard test procedures. There have been very many independent citations of this work in the related literature.

In July 1998, a visit was made to the Universidad Politecnica de Madrid, where four talks on coal spontaneous heating were given to an audience of academics and postgraduate students. Expenses were paid by the host institution in Madrid. The talks were part of a major project, with European funding, into coal self-heating, and the idea was that the participants would be brought up to date with developments at Aberdeen which they could subsequently apply. A certificate in recognition of the four talks and the contribution they made to the project was received at the conclusion.

There has also been research work at Aberdeen into offshore fires, and this has led to published work in 'Journal of Loss Prevention in the Process Industries', 'Journal of Fire Sciences' and 'International Journal on Engineering Performance-Based Fire Codes'. In these endeavours, some

emphasis has been given to ways in which fire behaviour can be incorporated into software for offshore risk assessment. There has also been significant work, partly in association with a collaborator in the USA, into flash points of organic liquids. There do appear to be in the standard reference works a number of recorded flash points for important, widely used organic chemicals which are not correct, sometimes erring on the hazardous side. Detailed corrections to these have been reported as a result of the Aberdeen work.

A further research activity, shared with members of the Department of Plant and Soil Science at the University of Aberdeen, has been the development of a direct-fired steam generator for the disinfection of soil. This work, which is now complete, received funding from the Ministry of Agriculture, Fisheries and Food. There has also been funded research into fire retardants in plastics, in collaboration with workers at West Virginia University.

During 1998-99 a third book was written, entitled 'The Principles of Thermal Sciences and their Application to Engineering'. It was published jointly by Whittles Publishing, Caithness, and CRC Press, Boca Raton, Florida, in mid-2000. The contents include the First, Second and Third Laws of Thermodynamics, steam cycles and an introduction to statistical thermodynamics. The book continues to sell and in 2006 a special cheap edition for the Indian market was published by Replika Ltd.

A fourth book, entitled 'Hydrocarbon Process Safety: A Text for Students and Professionals', was written in 2001-2002. Extending to approximately 300 pages, the book is available in US (Pennwell) and UK (Whittles) editions. Sales have been strong and the book is establishing itself as a standard text. The contents outline is:

Foreword by Dr. D. Olander, Goodrich Corporation.

Preface.

Chapter 1. Background to the oil and gas industry.

Chapter 2. Hydrocarbon leakage and dispersion.

Chapter 3. Combustion behaviour of hydrocarbons.

Chapter 4. Physical operations on hydrocarbons and associated hazards.

Chapter 5. Chemical operations on hydrocarbons and associated hazards.

Chapter 6. Some relevant design principles.

Chapter 7. Some relevant measurement principles.

Chapter 8. Offshore oil and gas production.

Chapter 9. Hazards with particular hydrocarbon products.

Chapter 10. Toxicity hazards.

Chapter 11. Safe disposal of unwanted hydrocarbon.

Chapter 12. Means of obtaining hydrocarbons other than from crude oil and related safety issues.

Appendix: The Canvey and Rijnmond Studies

Solutions to numerical problems

Self-test questions.

The book has received good reviews in periodicals including 'Fuel', 'Combustion and Flame' and 'Journal of Fire Sciences'. A companion volume entitled 'Numerical Exercises in Heat Transfer in a Hydrocarbon Safety Paradigm' was published at the very beginning of 2004 by Whittles. This too has sold well.

A sixth book, entitled 'Numerical Exercises in Fire Protection Engineering', was published in mid 2006. It is intended for students and also possibly for new entrants to the fire protection profession. There were over a hundred orders for the book in advance of its publication. A seventh book, the first to have a co-author, was published in June 2007. Entitled 'Dictionary of Fuel and Energy', it has UK and US publishers. Initial sales are very strong indeed.

Leeds DSc degree, 2005.

In July 2005 the degree of Doctor of Science was received from the University of Leeds. The basis of the award was published work submitted. There were three external examiners and two internal examiners and the final decision was taken by the University's Higher Doctorates Committee.

Supplementary Information.

Membership of Editorial Boards.

In late 1993, an invitation to join the Editorial Advisory Board of 'Journal of Fire Sciences' was received and accepted. The invitation was made by the Editor-in-Chief. The Journal is published every two months and is available online. In 2005 an invitation to be a 'Contributing Editor' of the professional journal 'International Fire Fighter' was accepted. This periodical is published in the UK, in hard copy and online, and has a wide distribution amongst fire protection experts. Later a similar role was accepted in relation to the sister periodical 'Asia Pacific Fire Magazine'.

Membership of professional bodies.

Combustion Institute, since 1979 (Member of the Committee of the Australia/New Zealand Section of the Institute, 1986-90)

Royal Australian Chemical Institute, since 1984.

Energy Institute (formerly Institute of Energy), U.K., since 1995, with associated Chartered Engineer enrolment.

Institute of Physics, since 1997, with associated Chartered Physicist enrolment. Also associated Chartered Scientist enrolment since August 2004.

National Fire Protection Association, since 1998.

American Chemical Society, since 2000.

American Association for Engineering Education, since 2001.

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Institution of Chemical Engineers, UK, Fellow since 2004. Chartered Environmentalist enrolment through the 'grandparenting scheme' since April 2005.

The Royal Society of Chemistry, UK, Fellow since 2005.

Newcomen Society for the Study of the History of Science and Technology, London, Member since 2007.

Institution of Fire Engineers, UK, Fellow since 2007.

Royal Society of Medicine, UK, Fellow since 2007¹.

Professional visits overseas.

Such visits have included one to the University of Michigan in 1984, to participate in the 20th International Symposium on Combustion, with the aid of a Combustion Institute travel grant. A similar grant in 1985 was used to travel from Australia to New Zealand to participate in a regional combustion meeting. In January 1989 a trip was made to New Zealand, with UNSW funding, for discussions with personnel at the Wool Research Organisation of New Zealand (WRONZ) in Christchurch. The longer trip to New Zealand, for collaboration with mathematicians at Massey University, has already been described.

In October 1996 a week was spent at the University of Montana, where a seminar on wood combustion was given. A follow-up seminar was given at the nearby Inter-Mountain Fire Laboratory. Two overseas trips were made in 1997. The first, in July that year, was to the 24th International Conference on Fire Safety in Columbus, Ohio. An invited paper was presented and published in the Proceedings volume. A travel grant was obtained from the Royal Society. In September 1997 a trip was made to the University of the Witwatersrand, Johannesburg, South Africa, with the aid of a travel grant from the Royal Academy of Engineering. A seminar on coal reactivity was presented, and this was attended by representatives of local industry as well as by members of the University. An abstract of the seminar was published in advance in 'Chemical Processing South Africa'.

The visit to Spain in July 1998 has already been described. In September of the same year a trip was made to Sweden, for the purpose of visiting Thermometric, the manufacturers of the microcalorimeter in use at the University of Aberdeen. Expenses were paid by Thermometric. A two-hour

¹ The vast majority of Fellows of the Royal Society of Medicine have a background in medicine, dentistry or veterinary science but there is provision in the regulations for persons from other backgrounds to be elected. The initial approach was by the Society itself on the basis of widely known activity in health and safety matters.

presentation to scientific staff at the company was given in which applications of microcalorimetry developed at Aberdeen were described

One professional overseas trip was made in 1999, to San Francisco for the 27th International Conference on Fire Safety, with University of Aberdeen funding. In January 2000, a trip was made to Hong Kong, for the Symposium on Energy Engineering in the 21st Century, with Royal Academy of Engineering funding. A paper was presented at each of these events. In July 2001 a second visit to Columbus was made for the purpose of participating in a conference in the same series as the 1997 one in the same city. Two papers – one on flash points and the other on offshore fire safety – were contributed. In December 2001 a trip was made to Dallas for the purpose of giving a talk on temperature measurement in combustion. This was at a meeting organised by ASTM, and the paper presented has been published as one chapter of an ASTM ‘Special Technical Publication’. In May 2002 a talk entitled ‘The development of fuel production and utilisation in the Far East during the 20th century’ was given at the Asian University of Science and Technology in Chon Buri, Thailand. A trip to India was made in February 2004 for the purpose of participation in the 7th UNESCO Conference on Engineering Education. A travel grant from the Royal Academy of Engineering was obtained towards the expenses. In May 2006 a visit was made to Tobago, where two papers were presented at an international conference on natural gas. Attendance was by invitation and full expenses were met by the conference organisers. Some of the points raised in the two papers were enlarged upon in an article by political analyst Walter Coppin in ‘Tobago News’.

In November 2006 a visit to Armenia was made for the purpose of participation, in the form of a plenary lecture, in an international conference held to mark the 75th birthday of the eminent combustion scientist Prof. A.G. Merzhanov.

Consulting.

Concurrently with the appointment at the University of New South Wales, a certain amount of consulting work was undertaken. The consulting was in the area of fire and explosion. Clients included Monsanto Australia, Australian Newsprint Mill and the NSW Police Arson Squad. At Aberdeen consulting clients have included the Goodrich Corporation, Shell International and BP.

Under the heading ‘Consulting’ will be included invited participation as one of about six speakers at the Scottish Energy Day, held at Parliament House in Edinburgh in 2006. A talk entitled ‘Some issues in oil supply and demand with special reference to the North Sea’ was given and was well received. An invitation to be one author, along with S. Salter and K. MacGregor, of the formal report arising from the meeting was accepted. The report, entitled ‘Scottish Energy Review: Scotland’s Opportunity, Scotland’s Challenge’, was widely discussed and received much media attention.

External examining at the University of Sheffield.

In mid-2001, an invitation to be the external examiner for the MSc(Eng) degree in Process Safety and Loss Prevention at the University of Sheffield for a three-year period was received and accepted. This involves approving the examination papers in advance as well as attending, annually, an examiners' meeting at Sheffield and making a report on the degree course to the central University authorities.

Broadcasts.

The following broadcasts have been made.

February 2004, BBC Radio Scotland, interview on a fatal fire at a residential home for the elderly in Scotland.

August 2005, BBC World Service, interview on two refinery fires which had occurred in the US that week and on safety standards generally in the oil and gas industry.

December 2005, BBC News 24, a live television interview on the Buncefield fuel depot explosion which had taken place earlier that day.

February 2006, BBC Radio Wales, a live interview on an explosion at an offshore gas storage facility which had occurred less than an hour earlier.

4th August 2006, BBC Radio Shetland, an interview on the fuel use of cardboard waste in which two colleagues also participated.

11 - 12th August 2006, interviews concerning the 'liquid explosive' threat at Heathrow Airport on BBC Radio 5, the Australian Broadcasting Commission 'breakfast time radio', BBC World Service and BBC West Midlands Radio. Also a feature on the BBC web site.

February 2007, live interviews (two, on different days) for Sky Television about letter bombs and one on the same subject for the London Broadcasting Company (LBC). Also a recorded interview on letter bombs for ITN, used by many radio stations. Also live interviews on the same topic on BBC Radio 5 and on BBC Radio Newcastle.

March 2007, live interviews on BBC Radio 4, BBC Radio Scotland ('Good Morning Scotland') and BBC Radio 5 on contaminated petrol. Also two TV broadcasts on the same matter, a recorded one on BBC 1 Six O'Clock News and a live one on BBC News 24.

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April 2007, a recording for Independent Radio Network on a fatal accident in the North Sea oil industry the previous day, subsequently forwarded to over 200 radio stations. A live radio broadcast for London Broadcasting Company and a live TV one for BBC News 24 about the same matter, also recorded broadcasts for Scottish Television and the Aberdeen radio station 'North Sound One'.

29th June 2007, live interview for Sky TV on an explosive device found in central London that morning. Also a live interview on BBC News 24 on the same matter.

2nd July 2007, recorded interview for Scottish Television on an explosion incident at Glasgow Airport the previous day.

20th July 2007, recorded interview for Star Radio, Bristol, on the hazards of hydrogen peroxide after persons in Bristol had been arrested in possession of that substance.

2nd August 2007, live interview for BBC Radio Merseyside on a fatal vehicle fire in Liverpool that day.

List of publications begins on the following page.

Publications by J.C. Jones

Books

1. Jones J.C. 'Combustion Science: Principles and Practice' 310pp. Millennium Books, Sydney (1993)
Supplement to this book: Jones J.C. Supplement to 'Combustion Science: Principles and Practice' 47pp. Millennium Books, Sydney (1995)
2. Jones J.C. 'Topics in Environmental and Safety Aspects of Combustion Technology' 182pp. Whittles Publishing, Caithness (1997)
3. Jones J.C. 'The Principles of Thermal Sciences and their Application to Engineering' 152pp. Whittles Publishing, Caithness and CRC Press, Boca Raton (2000)²
Supplement to this book: Jones J.C. 'Solutions Booklet for "The Principles of Thermal Sciences and their Application to Engineering"' 22pp. Whittles Publishing, Caithness and CRC Press, Boca Raton (2000)
4. Jones J.C. 'Hydrocarbon Process Safety: A Text for Students and Professionals' xii + 292 pp. Whittles Publishing, Caithness (2003)
US Edition published by Pennwell, Oklahoma.
5. Jones J.C. 'Numerical Exercises in Heat Transfer in a Hydrocarbon Safety Paradigm' 102pp. Whittles Publishing, Caithness (2004)
6. Jones J.C. 'Numerical Exercises in Fire Protection Engineering' xi + 78pp. Whittles Publishing, Caithness (2006)
7. Jones J.C., Russell N.V. 'Dictionary of Energy and Fuels' 376 pp. Whittles Publishing, Caithness and CRC Press, Boca Raton (2007)

Book Chapters

1. Jones J.C. 'The Science of Victorian Brown Coal: Structure, Properties and Consequences for Utilisation' (R.A. Durie, Ed.) Ch. 9, pp. 465-516, 'Pyrolysis' Butterworth-Heinemann, Oxford (1991)
2. Jones J.C. 'Suggestions towards improved reliability of thermocouple temperature measurements in combustion tests' Symposium on Thermal Measurements: The Foundation of Fire Standards Special Technical Publication, ASTM, Philadelphia 16-31 (2003)

Journal Articles

1. Jones J.C., Gray B.F. 'Surface colony growth in a controlled nutrient environment I The exponential law' *Microbios* 22 185-194 (1978).

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² An 'Indian Reprint' of this book, for sale only in India, Pakistan, Bangladesh and Sri Lanka, was published by Replika Press in 2006.

2. Jones J.C., Gray B.F. 'Surface colony growth in a controlled nutrient environment II The effect of ethanol' *Microbios* 22 195-201 (1978).
3. Jones J.C., Gray B.F. 'Surface colony growth in a controlled nutrient environment III Dependence of the growth constant on nutrient concentration' *Microbios* 23 45-51 (1978).
4. Gray B.F., Jones J.C. 'Critical behaviour in chemically reacting systems IV Layered media in the Semenov approximation' *Combustion and Flame* 40 37-45 (1981).
5. Gray B.F., Jones J.C. 'Critical conditions in chemically reacting systems' *Combustion and Flame* 40 331-332 (1981).
6. Jones J.C., Gray B.F. 'Inhibition of acetaldehyde cool flames' *Combustion and Flame* 52 211-213 (1983).
7. Gray B.F., Griffiths J.F., Jones J.C. 'Qualitative aspects of ethylene oxide oxidation in a well-stirred flow reactor' *Fuel* 63 43-45 (1984).
8. Gray B.F., Jones J.C. 'The heat-release rates and cool flames of acetaldehyde oxidation in a continuous stirred tank reactor' *Combustion and Flame* 57 3-14 (1984).
9. Jones J.C. 'Brown coal devolatilisation' *Herman Research Laboratory Science Report (S.E.C.V. Journal)* 14 4-5 (1985).
10. Jones J.C. 'Some aspects of the chemistry of Victorian brown coals' *R.A.C.I. Chemistry Resource Book (C.L. Fogliani, Ed.)* 14-21 (1985).
11. Jones J.C., Stacy W.O. 'Use of the Pyroprobe in pyrolysis experiments' *Fuel* 65 454 (1986).
12. Stacy W.O., Jones J.C. 'The swelling and adsorption characteristics of Victorian brown coals' *Fuel* 65 1171-1173 (1986).
13. Jones J.C. 'Thermokinetic oscillations in organic compound oxidation' *Chemistry in Australia* 54 375-376 (1987).
14. Jones J.C. 'Determination of safe stockpiling practices for combustible solids by laboratory-scale tests' (invited paper) *Chemical Engineering in Australia* 13 9-10 (1988).
15. Jones J.C., Raj S.C. 'The self-heating and ignition of vegetation debris' *Fuel* 67 1208-1210 (1988).
16. Jones J.C., Raj S.C. 'The self-heating and ignition of hops' *Journal of the Institute of Brewing* 94 139-141 (1988).

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17. Jones J.C. 'The self-heating of wool and its conformity to ignition theory' *Wool Technology and Sheep Breeding* 36 137-141 (1989).
18. Jones J.C., Raj S.C. 'The propensity to self-heating of solar-dried coal slurry' *Fuel* 68 648-650 (1989).
19. Jones J.C., Djakaria R., Ong H. 'Self-heating and criticality in the oxidation of a South Island lignite' *New Zealand Journal of Technology* 3 195-197 (1989).
20. Raj S.C., Jones J.C. 'Self-heating in the oxidation of natural materials from Fiji' *New Zealand Journal of Technology* 3 199-203 (1989).
21. Jones J.C., Djakaria R. 'Self-heating of wool' *New Zealand Journal of Technology* 3 205-208 (1989).
22. Jones J.C. 'The oxidation of peat and its thermal accompaniment' *Journal of Chemical Technology and Biotechnology* 45 223-229 (1989).
23. Jones J.C., Rahmati H. 'The self-heating and ignition of vegetation debris II Authentic litter samples' *Fuel* 69 253-255 (1990).
24. Jones J.C. 'The self-heating and ignition of vegetation debris III Heat transfer measurements' *Fuel* 69 399-401 (1990).
25. Jones J.C., Wake G.C. 'Measured activation energies of ignition of solid materials' *Journal of Chemical Technology and Biotechnology* 48 209-216 (1990).
26. Jones J.C., Bridges R.G., Rahmati H., Fowler D., Vorasurayakarnt J. 'The self-heating and thermal ignition propensity of forest floor litter' *Journal of Fire Sciences* 8 207-223 (1990).
27. Jones J.C., Lucien F. 'Quantities relevant to the handling safety of greasy wool' *Journal of Chemical Technology and Biotechnology* 49 321-327 (1990).
28. Jones J.C. 'An approximate rate expression for the combustion of a sample of forest litter' *Journal of Fire Sciences* 8 266-274 (1990).
29. Jones J.C., Vais M. 'Factors influencing the spontaneous heating of low-rank coals' *Journal of Hazardous Materials* 21 203-212 (1991).
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END OF LIST

³ Authors of this work, and participants in the 'Scottish Energy Day' which preceded it and which is briefly described in the body of the CV, were chosen on the basis of their expertise only and were not required to have any association with the Scottish National Party or agreement with its policies.

