

GRIP fast

THE NEWSLETTER OF CLAN LESLIE SOCIETY
OF AUSTRALIAN AND NEW ZEALAND. (CLANZ)



DOWN UNDER

Vol. 4, No 6, April, May, June 2008

REPORT ON CLANZ.

Here we are, well into the start of another year and this year I ask that members of Clan Leslie Society of Australia & New Zealand spend just a small amount of time trying to increase our membership. It is very simple, just get your local telephone book, turn to the Leslie's and ring a couple of them and ask for Mr Leslie and ask him if any research has been done into his Leslie ancestors. You will most probably get an answer in the negative, but just explain why you have rung and if they are not interested thank him for his time and try the next person. You will find that most people are interested in their family history. Some not interested enough to look it up, some are and those are the people who you want to join CLANZ.

With our new Banner, which will be taken to various Scottish Gatherings, it is hoped that it will increase the awareness of Clan Leslie.



As usual, any help would be appreciated in the running of CLANZ. I should mention for our friends overseas, who print this newsletter, it is designed for A4 paper, not letter.

Barrie Leslie, Gordon, NSW.

Roll of Honour



*Major Patrick Lun. Australian Defence Force.
on deployment in East Timor.*

Patrick Lun was born on 6th September 1971 in Hong Kong. Patrick is the son of Beverly and Patrick Lun and grandson of CLANZ member, Elaine Wood, nee Leslie.

After completing his secondary education at Normanhurst Boys High School, in Sydney, he entered the Australian Defence Force Academy and the Royal Military College, at Duntroon and was commissioned as an Officer in the Royal Regiment of Australian Artillery. From 1993 Patrick subsequently spent 14 years in the Australian Army, serving in Townsville, Sydney and Canberra, as well as a number of overseas deployments to Bougainville (Papua New Guinea) and East Timor. Patrick transferred to the Active Army Reserve in 2004.

He holds a Master of Leadership, Bachelor of Arts and a Diploma in Financial Services (Financial Planning) and is currently employed as a Management Consultant for a Canberra Consultancy Company.

Patrick married Susan (nee McKean) in 1994.

LESLIE, THE ANDEAN CONDOR.

Taronga Zoo in Sydney New South Wales has a new major attraction. It is a four year old Andean Condor, with a wing span of 3 metres.



LESLIE, The Andean Condor

Leslie is the third of three Andean Condors born at Taronga Zoo and although she has been in training for two years, she is still somewhat of a novice. She swoops from her purpose built tower onto her trainers arm.

The Andean Condors are native to the Andes region of South America where they roost in the high mountains and search for their prey.

Why she was named Leslie is not known.

Barrie Leslie, Gordon, NSW,

THE EARLIEST EVIDENCE FOR BARTHOLOMEW LESLIE AND HIS HUNGARIAN ORIGIN.

- 4) Col C H Leslie quotes two early charters in evidence of the existence of Bartholomew/Bartolf, both relating to Malcolm, son of Bartolf. The earliest- undated was then in the Rothes archives, although in Vol 3 there is an odd reference to the Countess's refusal to let him see it. Where is it now? Whilst proof of subsequent descent of the next few generations is not entirely satisfactory, it is reasonable to assume from the continuing presence of a family who become known as Leslie in the Garioch/ Inverurie from the 1200's, that subsequent Leslie traditions summarised in Laurus Leslaeana and Col C H Leslie's

"Historical Records of the Family of Leslie" are correct.

- 2) George Leslie – the last of "that ilk" – was retoured as heir of Malcolm and Norman in 1634 – although this probably reflected more his desire to hang onto some rights and gentility at a time when he had lost his lands at Leslie, than any great work of proven research. Nonetheless it shows that the names of Malcolm and Norman – but not Bartholomew were familiar in the early 1600's – and enough to persuade a large number of other local landowners to sign up to them.

4) "THE HISTORIE OF SCOTLAND"

BY JOHN LESLEY, BISHOP OF ROSS

Bishop Lesley was a devout Catholic and supporter of Mary Queen of Scots, whom he accompanied on her exile in England in 1568 until Queen Elizabeth imprisoned him in 1572. On his release in 1573 he travelled widely in Europe, spending 4 years in Rome. He subsequently was Vicar General of Rouen. On hearing of Queen Mary's execution in 1587 he entered the Augustinian Monastery in Bruxelles where he died in 1596, aged 70. During his time in England he wrote a History of Scotland in Scots covering the period 1436-1561. A copy of the manuscript passed to Andrew Melville, Master of Queen Mary's household in England, whence it passed by descent to the Earls of Leven and Melville who allowed it to be published by the Bannatyne Club in 1830. Bishop Lesley must have retained a copy and during his time in Rome translated it into Latin and completely rewrote it, adding the early period up to 1436. This was published in Rome in 1578 and reissued in 1675, apparently under the auspices of John Leslie 6th Earl of Rothes and a George Leslie, probably Father Leslie. A copy of the original 1578 book was translated in the Scots Monastery, at Regensburg by Father Dalrymple in 1596. There it remained until 1860 when it passed, on the suppression of the Scots Monastery in Regensburg, to St Benedict's Abbey at Fort Augustus. There Father Cody realised its importance and edited it for publication by the Scots Text Society in 1888. Thus two separate and very different versions in Scots saw the light of day in the 19th century.

- 4) Col C H Leslie, in his "Historical Records of the Family of Leslie" quotes from the 1578 edition in some places verbatim. He adds the "Grip Fast and "Less ley" accounts which do

not appear in Bishop Lesley. It is possible that these and the Hungarian origin may appear in other published sources, but there are not many which date from before 1578, so clearly at least Bartholomew and the Hungarian origin were already familiar to Bishop Lesley. It is slightly surprising that the Bishop also quotes the Leslye's in the list of "Inglishmen" as well as in the list of "Hungarians" – and omits the Drummonds from the latter although they have more recently claimed the same origin as the Leslies.

Excerpt from "The Historie of Scotland" Written in Old Scots

In this meane tyme Herald efter the deith of Edward (*the Confessor*) invadet the sceptre of Ingland, excluding Edgar rychtuous heire, bot be William Duke of Normandie Herald is ouircum and schott out of the Realme, and slane. Now Ingland is occupiet be Willyeam of Normandie bastard, quha was crounet in December XXV the yeir of God 1066

Edgar, Edward his sone and S. Edward, his oye was first neist Herald, thaireftir sair vexte and trublet with Weiris be him of Normandie, quhairfor with his mother Agatha, and his tua sistiris, he quyetlie slipis till a schip, of that intentione, that quhen they coulde na mair of the kingdome hope, thay mycht pas in Vngre. Yitt throw the grace of God sa befell, that through the force of Windes dryuen heir and their, at last they landet in a heiuen of fforthe. Unto this day remaynes in that place, quhair sche first landet, S Margaretis porte, and the name sett onn, frome Edgar his sister, quhome thaireftir Malcolme mariit. With joy of the hail Realme, and causet her to be crounet of a solemne and Royalle maner, quhome he receauet with giftes rare and singlar in tocher gude, singulat J say, and meruellous baith in body and mynd.

Quhen Wilyeam of Normandie knew this, he commandet to pas out of Ingland all Edgar his friendes and of his kin; of quhome sparang vp Lindsay, Vaus, Ramsay, Loual. Toures, Prestoun, Sandelandis, Bissatt, ffoulis, Wardlaw, Maxwell and mony vthiris of grett nobilitie, that tyme vam first in Scotland; quhilkes houses all war decoret be King Malcolme with large landes, as this day may be seine. With Agatha lykwyse cam out of Wngre mony, as Crychoun, ffodringhanne, Giffert, Manlis, Borthwik and vthiris; amang quhom war Bartholmew Leslie, quha through nobilitie and stout Courage was honorable amang the rest, quhais quicknes of Ingine, ablenes of

mynd, valyeantnes of body and fercenes of force. King Malcolme meruelet sa mekle, that in seiging the castell of Edinb and in all battellis of ony affecte, he yset his Ingine. Of this hous of the Leslies are sprung up, mony baith verteous bauld and Victorious; in quhome was Waltir Leslie erle of Rosse, quha efter he in mony battelis had obteynet the prayse and commend of Wisdome and Wichtnes, last he seret Ludouik the second, and Charles the fourt, Emperoutis sa Worthilie in the Weiris against the Saracenis, that from the putt of a noble spirit, na doubte, quhairthrow he vset to ding doune the douchtie, and bring thame in subiectioun, thay namet him a hartie horsman or a noble rydar, from this stock is the Erle of Rothose and many vthiris Baronis, and Cnychtis of the Leslies; quhome forst Malcolme, thairefter dieverses vthiris vthiris kingis decoret with fayr feildis, and braid boundes in Fife, Angus, Gouris, and the Gareoch, and vthiris prouinces, qha this day ar of grett Nobilitie and meklw commendet for thair vertue in Scotland About this tyme lykwyse, cam out of ffrance ane innumerable multitude of Nobles of quhome we haue Freser, Sanchir, Monygomerie, Campbell, Brise, Betoun, Tailgefer, Bothuell and vthiris diueris. Wilgeam of Normandie is now grettlie offendet that Edgar is defendet be his nychtbour of sik a maner, quhairfor he preparis to invade Malcolme; Bot quhen he sies na prosperitie in his enterprise, he makes a bande of peace with Malcolme; on this condition, that Edgar, ☐abelle and fauoures, sulde returne to Ingland without iniure or harm



John Leslie, Bishop of Ross.

John Leslie, Bishop of Ross was descended of the Leslie's of Cults, a branch of the Leslie's of Balquhain. His cousin Margaret Leslie married John Leslie of Boat of Spey, 2nd son of George Leslie 1st Laird of Aikenway and he is my 1st cousin 11 times removed.

Many thanks to the late Sir Peter Leslie of England for his assistance in researching the above story. I hope that the Old Scots from the book of 1596 is not too hard to read, as I do not have a modern English translation. I actually have a CD of "The Historie of Scotland"

Barrie Leslie, Gordon, NSW.

ADVERTISING POSTER FROM 1938 FOR WHITE LABEL WHISKY.



For those who might remember it and those who might like to see it. This poster is of an Officer in the Kings Own Scottish Borderers wearing trews in the Leslie Hunting Tartan. Unfortunately the KOSB is no longer and is now incorporated into the new Scottish Super Regiment. The poster dates to 1938.

Barrie Leslie, Gordon, NSW.

JOINING THE CLAN LESLIE DNA PROJECT.

I would ask that you all read the following article very carefully as it spells out very clearly what the DNA Project can do for families and their descendants. The Clan Leslie DNA Project now has 10 participants and the more that participate, the better. I am in the process of upgrading to the 67 markers, which gives the most information available, at the moment, but who knows what information will be available in the future. For further information go to the website www.familytreedna.com and look for the Leslie DNA Project.

Barrie Leslie, Gordon, NSW.

"THE BASICS OF GENETIC GENEALOGY,"
by Guido Deboeck

In spite of the numerous sources and vast amount of documented information that can be found, we should not forget that documents can contain errors, may have been written to mislead or hide the truth, or may have been destroyed either on purpose or by accident (e.g. by fire, floods, or earthquakes). Additionally, some relationships may never have been recorded. This is why conventional genealogy can only go as far as the research of documents allows. To go beyond the constraints of the paper world, there is genetic genealogy. Genetic genealogy relies on DNA, which we all have, does not change, cannot be destroyed, and is never wrong.

DNA testing complements conventional genealogy through the analysis of the unique sequence of chemicals that defines each human being. Through DNA testing, one can tell if two people are related (though not the exact nature of the relationship), verify, or potentially correct genealogical information extracted from documents.

DNA contains the blueprint of life, i.e., all the instructions that build and control the day-to-day functioning of the cells in our body. This blueprint, with its instructions, is passed from parent to child with few or minor changes. DNA stands for Deoxyribo Nucleic Acid. It is structured as a double-stranded helical molecule. Think about a ladder with rungs or sides that are

twisted: the rungs are composed of chemicals held together with a sugar backbone, somewhat like table sugar. These chemicals are called nucleic acid bases, or nucleotides; they are the building blocks of every DNA molecule. The four nucleotides contained in every DNA molecule are Adenine, Cytosine, Guanine, and Thymine, which are simply labelled as A, C, G, and T.

A section of the long, double-stranded helical DNA molecule is a gene. A gene contains instructions for some specific functions, such as making a protein. Some genes are responsible for physical character.

There are about 30,000 genes, but they constitute less than five percent of all DNA. The rest are commonly called “junk DNA,” although some parts of this DNA determine the structure of the chromosomes. Genes are packaged in 46 chromosomes, which are arranged in 23 pairs that define the human genome. In sum, the complete human genome contains billions of bits of information.

Children inherit copies of their parents’ DNA. This genetic hand-off is repeated from generation to generation. In copying DNA, some mistakes may on occasion occur, for example, the substitution of a C for G or a T for an A. Think about monks in a medieval monastery who copied manuscripts and on occasion made some mistakes (maybe after finishing their daily ration of five litres of beer). Despite the efforts of even the abbot of the monastery, who proofread all pages that the monks copied, spelling mistakes may have remained in the final document.

The same happens when proof reading a book: several mistakes may be removed but despite my best efforts some mistakes still remain. In genetics, such mistakes are called “mutations.” These mutations provide variation, or the evolution of the basic building blocks. However, mutations occur at a low rate, maybe 50 changes per generation in billions of nucleotides that make up the human genome.

How can this evolution in the building blocks be useful to genealogists? The DNA in the nucleus of a cell contains 23 pairs of chromosomes. One pair determines the gender. Males receive or inherit a Y chromosome from their father and an X chromosome from their mother. Females

inherit two Xs, hence, males with the same Y chromosome have a common ancestor. Y chromosome analysis (Y-DNA) can verify or help to investigate the paternal lineage of an individual. Investigation of the X chromosomes in a female can verify her paternal lineage only if the X that is common between two sisters is the same as the X chromosome of their father.

Outside the nucleus of a cell are many small organelles, called “mitochondria.” These are the power stations of a cell because they are structures in which energy is produced and stored. Mitochondrial DNA (mtDNA) is the small amount of DNA found in the mitochondrion. MtDNA is passed on via the egg cell of a mother, hence only females can pass mtDNA to their offspring. In consequence, an analysis of the mtDNA in males or females can provide valuable information to verify or help to investigate the maternal lineage of an individual. In this way, genetic genealogy can identify paternal lineage via Y chromosome analysis and identify the maternal lineage via mtDNA analysis. By testing males for both Y-chromosome and mtDNA, one can trace their paternal and maternal lines. By testing females for mtDNA, one can trace their maternal lines. The information obtained through these analyses can determine the specific branches via which an individual comes from the evolutionary tree of human relationships. DNA testing complements conventional genealogy. Both conventional and genetic genealogy can contribute to a more comprehensive family history.

Courtesy the author, Guido Deboeck.

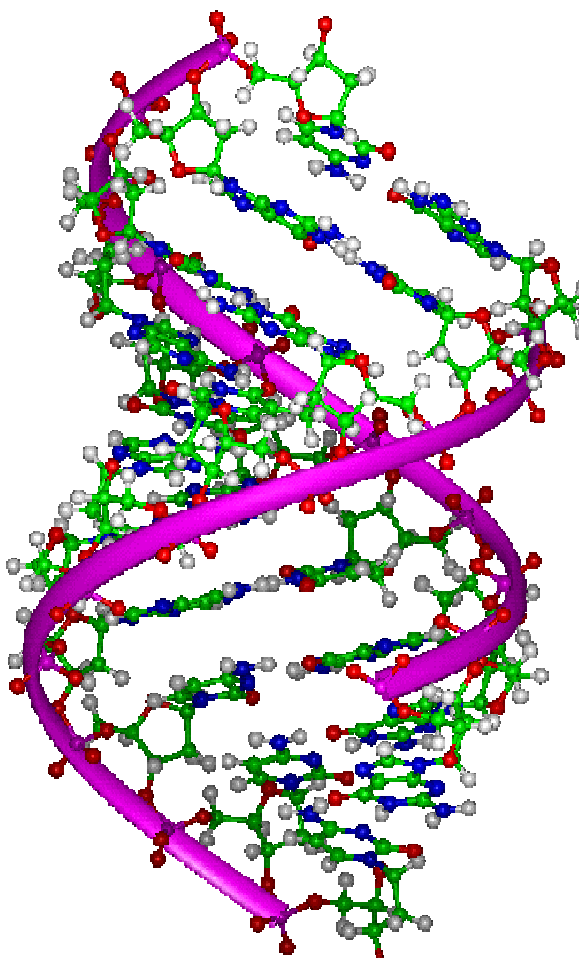
I apologize for the involved screed above, but it does give a good explanation of what DNA can do for historians and genealogists.

Barrie Leslie. Gordon. NSW.

Computer Model of the DNA Helix

Despite what you may have seen in some textbooks, DNA is not built like a twisted ladder. The **helix**, or spiral, is an inherent feature of the DNA molecule. Notice, for instance, that in the picture below, that the groove on the left side of the picture is much larger than the right side. This is because the **paired bases** in the centre meet each other at an angle.

DNA is a very large molecule; the image here shows only a tiny fraction of the typical molecule. If an entire molecule of DNA from the [virus](#) "bacteriophage lambda" were shown at this scale, the image would be 970 metres high. For the [bacterium](#) *Escherichia coli*, the image would be 80 kilometres long. And for a typical piece of DNA from a [eukaryote](#) cell, the image would stretch for 1600 kilometres, about as far as it is from Dallas to Washington, D. C. Obviously such a large molecule is not fully stretched out inside the cell, but is wound around proteins called **histones**, which protect the DNA.



You might also notice in the image that the two halves do not quite come in contact. In fact they are held together by **hydrogen bonds**, a sort of electrical attraction between partially negative atoms on the base of one side with the partially positive atoms on the other. Both sides have positive and negative charges. A single such pairing would not hold the molecule together well, but several million such bonds are quite effective. This also has the advantage that little effort is required to pull the two halves apart for **replication**, when the DNA is copied, and for **transcription**, when the DNA message is read. The message of DNA is the information from which the cell and its components are built.

This model of DNA appears courtesy of the [Image Library of Biological Macromolecules](#) based in Jena, Germany, which maintains a large archive of spectacular computer graphics of DNA, RNA, and proteins.

TRACING IRISH ANCESTRY.

Australians and Americans with Irish ancestry have often been discouraged to find that the records that they are searching for, have been destroyed (fire, civil insurrection etc) and there is no way to find the information they want. True, but there is a site that might just help you. No guarantees, but at least look and persevere and who knows what you might find:-

Go to www.johngrenham.com and you will find links to hundreds of other free sites.

Go to the home page, go to Genealogy Links and a drop down menu appears. For example go to Family Sites and you will go to a page with letters of the alphabet, choose the letter you want and up comes a pages of known sites, devoted to Irish families with the surname of the letter you have chosen. Another great link is County Records, click on that loads a map of Ireland, select the county of interest.

I will leave it up to you to see what else is on the site, but be curious and look and who knows what you might find. Good luck.

Barrie Leslie. Gordon. NSW.

MANY THANKS FOR DONATIONS TOWARDS THE COST OF OUR BANNER.

Derek Leslie	Wollstonecraft.	NSW.
John Lesslie	Kenthurst.	NSW.
Bruce Leslie.	Cleveland.	Qld.
Beryl Tremain.	Yeovil.	NSW.
John Lesslie	Banora Point.	NSW.
Pamela Lesslie	Noosaville.	Qld.
Audry Fry.	Toorak Gardens.	SA.
Janene Leslie.	Yeerongpilly.	Qld.
Our friends in	North America	
Athol Smart	Marlborough.	NZ.
Gloria Carroll	Wellington.	NZ.
Alex Leslie Florence.	Paraparaumu.	NZ.
Elaine Wood.	West Pymble.	NSW.
Russell Lesslie.	Killara.	NSW

OUTSTANDING RENEWAL FEES!!!!!!!

For those people who have **not yet paid** their membership fees for the year ending 31st December 2008, could you please send them in as it costs money and time to chase them up. For those who have paid after the last newsletter went out, thank you very much, as it saves me a lot of time and effort, also, if you have changed any of your contact details, please let me know.

Barrie Leslie, Gordon, NSW.

**CLAN LESLIE SOCIETY INTERNATIONAL
2008 GATHERING
ST CHARLES. MISSOURI. USA.
APRIL 4, 5 & 6TH 2008.**

Just a reminder that the Clan Leslie Society International Clan Gathering is being held at St Charles, Missouri, USA on the 4, 5 & 6th April 2008.

The Country Inns & Suites Hotel is the base for Clan Leslie. Registration is on Friday April 4th at 11-00am. To book into the Hotel go to:-

<http://www.countryinns.com/stcharlesmo> but to book to get the special Clan Leslie rate you will have to ring 1-888-201-1746 and ask for the Clan Leslie Society International rate.

This newsletter will be going out a bit too late for The Gathering, for which I apologize.

Barrie Leslie. Gordon. NSW.

HUNGARIAN CLOTHING.



*Clothing as worn in the period of Bartolf.
From left to right.*

1/3. One low ranking soldier and two higher ranking soldiers.

4. St Stephan with crown. In the right hand is the Kings sign of power, a Royal spear and in the left hand is a Golden apple.

5. An armoured soldier with clothes which have been strengthened with leather plates.

6. An Hungarian Duke based on Bulgarian Dukes clothing and on his head is the Diadem of Geza I. Bartolf would have clothes similar to this uniform.

7. Geza I, King of Hungary 1074 – 1077. Clothing was reconstructed from a picture found at Nyitravanka and is now in the Hungarian National Museum. On his head is the Crown of Duke Michael.

8. 11th century Hungarian soldier.

Barrie Leslie. Gordon. NSW.

ANOTHER LESLIE CASTLE



*Eden Castle Deveron River, Banff.
Photograph courtesy of Stanley Bruce. Banff*

Eden Castle is about 3 ½ miles from Banff in Aberdeenshire. It was originally a Z plan Tower Castle built by the Meldrums in 1577.

It was purchased by the Leslie family of Iden, which was the original spelling of the name and extended by them.

The Leslie family of Iden is a branch of the Barons of Balquhain and the progenitor of the Leslie family of Iden was Patrick Leslie third son of Patrick Leslie of Logyburn, a natural son of William Leslie, 4th baron of Balquhain by

Mary, daughter of Sir Thomas Meldrum of Fyvie.

Patrick Leslie 3rd son of Patrick Leslie of Logydurno, was the 1st Laird of Iden, who purchased the Lands of Iden from the Meldrum family who had built Iden Castle in 1577, which was later extended by the Leslies of Iden.



Eden Castle from the rear.

George Leslie, 4th laird of Iden, married Margaret Leslie, sixth daughter of Patrick, Count Leslie, 15th baron of Balquhain and had a daughter, Elizabeth.

George Leslie 4th Laird of Iden sent, as a present, a curious manuscript, on vellum, relating to the Cathedral Church of Aberdeen, containing the necrologie thereof and other valuable papers, a letter of thanks was ordered to be written to him by the University authorities, 12th December 1727. This manuscript, called in the index a Registrum Charturum, was written by Alexander Galloway, Parson of Kinkell, who according to an entry therein by another hand, died 6th October 1552.

George Leslie 4th laird of Iden sold the lands of Iden, situated in the parish of King Edward on the banks of the Deveron, between Turriff and Banff, to William Duff of Braco (Earl of Fife) in 1712 and he died in 1740. His wife, Margaret Leslie, commonly called Lady Kinnares, died 3rd February 1744.

Barrie Leslie. Gordon. NSW.

ARTICLES NEEDED FOR GRIP FAST DOWN UNDER.

We need articles and stories to put into Grip Fast Down Under, especially the "Roll of Honour" Please do not be shy. Send them in.

**Commissioner
Clan Leslie
Aust & NZ** **James Barrie Leslie** 61-2-9418-2262
43 Rosedale Road. Gordon.
NSW. 2072. Aust lesliejb@ozemail.com.au

Convenor CLANZ **J. Barrie Leslie** as above

Patron of CLANZ **Rt Rev Kenneth Leslie OBE. BA. Th. Schol.**
6th Bishop of Bathurst.

**Secretary
Membership** **Malcolm W Leslie** 61-7-4635-8358
1 Mannuerm Crt. Toowoomba. Qld.4350.Aust
mle98103@bigpond.net.au

Treasurer [acting] **Elaine M Wood** 61-2-9498-5068
41 Kooloona Cres West Pymble
NSW 2073. Aust elawood@ozemail.com.au

Newsletter newsletter editor or committee required

**Webmaster &
I T Manager** **Andrew C Leslie** 61-2-9958-6284
19 Douglas Ave Chatswood.
NSW 2067. Australia
aleslie@amalgamated.com.au

**New Zealand
Representative** **Ruth M Leslie** 64-9-634-9022
1/76 Wallace Rd Mangere Bridge.
Manukau City New Zealand
Clickimin@ihug.co.nz

**Queensland
Representative** **Selwyn J Leslie** 61-7-4630-7023
32 Gowrie-Tilgonda Road. Gowrie Junction
Qld 4352.Aust selwyn.leslie@bigpond.com

**South Australia
Representative** **Audry M Fry** 61-8-8331-9688
37 Ormond Grove, Toorak Gardens,
South Australia 5065. Australia.

**Victoria
Representative**

**West Australia
Representative** **Robin Stott** 61 -0405 390 585
25 Hartford Ave. Viveash.
W.A. 6056. Aust. perostott@hotmail.com

WEBSITE for CLANZ. <http://www.clanleslie.org>

Previous issues of Grip Fast Down Under:-

www.electricscotland.com/familytree/newsletters/leslie/index.htm

Acting Chief of Clan Leslie **Hon Alexander John Leslie**
Lockerbie, Scotland

Clan Leslie Society International

Chieftain Bob (Robert C) Bailey. 6113 El Toro Court. San Jose.
CA 95123. USA email:- clanleslie@sbcglobal.net

SUBMITTING OR USING ARTICLES IN GRIP FAST DOWN UNDER

Submitting articles to Grip Fast Down Under

Articles, photographs may be submitted by post or e-mail. Please include your name and address. If the articles are from another publication, either print or electronic, permission must be obtained from the copyright holder if the article is subject to copyright, and included with the article or photograph. If you are emailing a colour photograph, please send it as an IBM PC, **jpeg** format at 360dpi. If in greyscale, please send it at 300dpi, both at **25%**.

Using articles from Grip Fast Down Under

Please note, that unless otherwise stated, copyright rests with Clan Leslie Society of Australia and New Zealand, [CLANZ], but organisations may use articles in Grip Fast Down Under, providing the source is acknowledged as Clan Leslie Society of Australia and New Zealand at the time of printing.