



Florence Violet McKenzie

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Florence Violet McKenzie *OBE* (*née* **Granville**; 28 September 1890^[1] or 1892^[2] – 23 May 1982), affectionately known as "Mrs Mac", was Australia's first female [electrical engineer](#), founder of the [Women's Emergency Signalling Corps](#) (WESC) and lifelong promoter for technical education for women.^[1] She campaigned successfully to have some of her female trainees accepted into the all-male Navy, thereby originating the [Women's Royal Australian Naval Service](#) (WRANS).^[2] Some 12,000 servicemen passed through her signal instruction school in [Sydney](#), acquiring skill in [Morse code](#) and visual signalling ([flag semaphore](#) and [International Code of Signals](#)).^[3]

She set up her own electrical contracting business in 1918, and [apprenticed](#) herself to it, in order to meet the requirements of the Diploma in Electrical Engineering at [Sydney Technical College](#) and in 1922 she was the first Australian woman to take out an [amateur radio operator's](#) licence. Through the 1920s and 1930s, her "Wireless Shop" in Sydney's Royal Arcade was renowned amongst Sydney radio experimenters and hobbyists. She founded *The Wireless Weekly* in 1922, established the [Electrical Association for Women](#) in 1934, and wrote the first "all-electric [cookbook](#)" in 1936. She also corresponded with [Albert Einstein](#) in the postwar years.^[4]

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Family and education [edit]

Florence Violet McKenzie was born Florence Violet Granville on 28 September 1890 in [Melbourne](#)

Florence Violet McKenzie

OBE



McKenzie in her [WESC](#) uniform, ca. 1940

Born	Florence Violet Granville <div>28 September 1890 or 1892</div> <div>Hawthorn, Victoria, Australia</div>
Died	23 May 1982
Other names	"Mrs Mac", Wallace
Alma mater	Sydney Technical College
Occupation	Electrical engineer
Known for	founder of the Women's Emergency Signalling Corps

although, before her marriage to Cecil McKenzie at the age of 34, she was known as Violet Wallace.^[1] Other sources cite 1892 as her birth year.^[2] Wallace was her stepfather George's surname; he was a commercial traveller. When Violet was an infant, the family moved to [Austinmer](#), south of [Sydney](#).

From a young age, Violet had an independent interest in electricity and invention. As she recalled in an oral history interview in 1979:

I used to play about with bells and buzzers and things around the house. My mother would sometimes say "Oh, come and help me find something, it's so dark in this cupboard" – she didn't have very good eyesight... So I'd get a battery and I'd hook a switch, and when she opened that cupboard door a light would come on... I started sort of playing with those things.^[6]

"I went down to Technical College and saw the Head there, and he said, 'Oh, you can't come here and do engineering unless you're working at it'... I said, 'Well now, suppose I had an electrical engineering business and I'm working at it, would that be all right?' He said, 'Yes, if you produce proof.' So I went back and I had some cards printed with my name on, and electrical work, and got the paper and wrote down the ads, and read that a house in ... [Undercliffe](#) about 2 miles from the tram^[5] ... was asking for prices for putting in electric light and power... I went out there and nobody else was silly enough to go, so they gave me the job. ... I went back to Tech and took my card down and showed them the contract for the job, and they said, 'All right, you can start.'"

Florence McKenzie^[6]

From [Thirroul](#) school, McKenzie won a bursary to study at [Sydney Girls' High School](#). In 1915 she passed Chemistry I and Geology I at the [University of Sydney](#),^[7] then approached the [Sydney Technical College](#) in [Ultimo](#) to enrol in the Diploma of Electrical Engineering. By March 1922, she had won the diploma.^[5] In December 1923, McKenzie graduated from the Sydney Technical College. She later gave her Diploma – the first of its kind awarded in Australia to a woman – to the collection of the [Powerhouse Museum](#), also in Ultimo.^[8]



Cecil Roland McKenzie was a young electrical engineer employed by the Sydney County Council's Electricity Undertaking. He too was a radio enthusiast, and one of Violet's customers at the shop. They were married at the Church of St Philip in [Auburn](#) on [New Year's Eve](#) 1924. They built a house at 26 George Street, [Greenwich Point](#) complete with a wireless room in the attic.^[9] The house remains, but has been extensively renovated since the McKenzies lived there.

Violet McKenzie and husband Cecil McKenzie c1935 The McKenzies had a daughter, stillborn, in 1926.^[10] They sometimes took in the two sons of Violet's only sibling, Walter Reginald Wallace, from Melbourne. According to the [Sands Directory](#) these boys, Merton Reginald Wallace and Lindsay Gordon Wallace, later operated their own radio shop in [Prahran](#), Melbourne.^[11]

Early employment and interests [[edit](#)]

Violet taught mathematics at Armadale, before deciding to take a course in electrical engineering.^[5] Throughout her studies, Miss Wallace worked as an electrical contractor, installing electricity in private houses, such as that of politician [Archdale Parkhill](#) in [Mosman](#), and in factories and commercial premises, including the Standard Steam Laundry on Dowling Street, [Woolloomooloo](#).^[12] She was an enthusiastic [ham radio](#) operator, being the first licensed woman in the country and with the call sign "2GA" (later changed to "VK2FV").^[13] In 1922 Miss Wallace opened "The Wireless Shop", after purchasing the entire stock of the wireless vendor who preceded her^[5] – billing itself as "the oldest radio shop in town"^[14] – in the [Royal Arcade](#) (which ran from George Street through to Pitt



The Wireless Shop
Miss F.V. Wallace, electrical

Street – replaced in the 1970s by the [Hilton](#) hotel).^[15] McKenzie later engineer said it was schoolboys visiting her shop who first introduced her to Morse code.^[6] Australia's first weekly radio magazine was conceived at the shop, by Miss Wallace and three co-founders. "The Wireless Weekly" became the monthly magazine "Radio & Hobbies", then "Radio, Television & Hobbies", and finally [Electronics Australia](#),^[13] and remained in circulation until 2001.^[1]



McKenzie working with the wireless radio c1922

In 1924 McKenzie became the only female member of the [Wireless Institute of Australia](#).^[16] That same year she travelled to the United States for business reasons, and in San Francisco was welcomed at radio 6KGO: 'Miss Wallace, an electrical engineer from Australia, will now talk from the studio.' She reportedly used her time on air to comment on the difference between the tram systems in San Francisco and those in Sydney.^[17] In 1931 she also notes that she experimented with improving the science of television through the use of [chemistry](#):

"[I] have a pronounced kink for television work and devote most of my spare time in experimenting that branch of the science. Have a deep-rooted conviction that chemistry is going to provide the solution and am working along those lines."^[18]

The McKenzies had a mutual interest in [tropical fish](#) and had an enormous fishpond in the front yard.^[19] She spoke of heating water electrically to house tropical fish at home in the early 1920s, and of having given talks on Radio 2FC about tropical fish in the days when she was doing electrical contracting work.^[6] In January 1933 the American journal [Aquariana](#) published an article written by McKenzie concerning 'Some interesting inhabitants of Sydney seashores', in which she recommended keeping sea horses in a salt-water tank.^[20]

McKenzie join the British based [Women's Engineering Society](#) in the 1930s (at that time the only organisation for women engineers in the world) and was described by as "our most distant" member in an article in *The Woman Engineer* journal 1942.^[21]

Women's technical education [[edit](#)]

In the 1930s, McKenzie turned her attention increasingly to teaching other women about electricity and radio. She had observed the need over years of working in the field herself. In 1925, she told the [Australian Woman's Mirror](#): "[T]here are such a lot of women experimenters [amongst my customers] that I would like to form a Women's Wireless Club."^[9] In 1931 she told a [Sunday Sun](#)^{[[clarification needed](#)]} reporter that she wanted to see a course of lectures on domestic radio and electricity established in girls' schools and technical colleges.^[22] The following year she took matters into her own hands, opening a Women's Radio College on Phillip Street in 1932. She persuaded employers to take on some of her trainees, as one of them later recalled:



The rooms of the Electrical Association for Women, c1936. McKenzie sitting at the piano

During the Depression I joined Mrs Mac's electrical school in Phillip Street. It was the first time girls were involved with electrical circuits, Morse and making radio sets. Later Mrs Mac decided it was time to use our skills in industry, so she persuaded Airzone Ltd to take one of us (me) on trial in their radio section. Soon the others followed from the school, and we started the component parts section, and we were absorbed into many other sections.^[23]

McKenzie believed that electricity could save women from domestic drudgery, writing that... "To see every woman emancipated from the "heavy" work of the household by the aid of electricity is in itself a worthy object."^[24] To this end in 1934 she founded an educational initiative, the [Electrical Association](#)

for Women (EAW) at 170 [King Street](#) in the centre of Sydney, later moving a few blocks away to 9 [Clarence Street](#).

Concerned with safety when using electrical appliances, and no doubt drawing on her own experience in receiving an accidental electric shock that knocked her out for an hour, McKenzie delivered at least one talk on resuscitation, advising that conventional resuscitation should proceed for up to three-quarters of an hour following electrocution. She knew of one case where recovery took 4 hours.^[25]

By 1936, McKenzie had sold the Wireless Shop, and was busy at the Electrical Association for Women. She gave electric cooking demonstrations in the EAW kitchen, which was fitted out with show electrical appliances by the Sydney County Council.^[6] She compiled the EAW Cookery Book, Australia's first "all-electric" cookery book, which ran into seven editions and remained in print until 1954.^[26] She wrote an illustrated book for children about electrical safety called *The Electric Imps* in 1938.^[3]

In July 1938, McKenzie was one of 80 women in attendance at the inaugural meeting of the Australian Women's Flying Corps (later known as the [Australian Women's Flying Club](#)) held at the Feminist Club of New South Wales at 77 King Street. McKenzie was appointed treasurer and instructor in Morse code to the organisation.^[27]

Women's Emergency Signalling Corps ^[edit]

In 1939 McKenzie established the [Women's Emergency Signalling Corps](#) (WESC) in her Clarence Street rooms – known affectionately as "Sigs". Her original idea was to train women in telegraphy so that they could replace men working in civilian communications, thereby freeing those skilled men up to serve in the war.^[28] By the time war broke out, 120 women had been trained to instructional standard.^[29]

Women's Royal Australian Naval Service ^[edit]

McKenzie campaigned energetically to have some of her female trainees accepted into the Air Force and Navy as [telegraphists](#). She encountered a great deal of official resistance. In 1940 she wrote to the Minister of the Navy, former Prime Minister [WM \(Billy\) Hughes](#), saying "I would like to offer the services of our Signalling Corps, if not acceptable as telegraphists then at least as instructors."^[30] Despite her suggestion being dismissed, some time later McKenzie and six trainees were provided third-class train tickets to Melbourne to meet with the Naval Board for testing.^[13]

In early January 1941, Commander Newman, the Navy's Director of Signals and Communications, visited the WESC headquarters on Clarence Street to test McKenzie's trainees. Finding they were highly proficient, he recommended the Navy admit them.^[31] Hughes still took some convincing. After McKenzie threatened to take her offer to the Air Force instead, the urgent need for trained telegraphists prevailed, and on 21 April a Navy Office letter authorised the entry of women into the Navy.^[32] This was the beginning of the Women's Royal Australian Naval Service – the WRANS. The minister's condition was that "no publicity...be accorded this break with tradition".^[30]

On 28 April 1941, McKenzie accompanied 14 of her WESC trainees (twelve telegraphists and two domestic helpers). They had their medical test on 25 April and arrived at [HMAS Harman](#) in [Canberra](#) on 28 April 1941. The women were dressed in their green WESC uniform which had been designed by McKenzie herself^[33] – it was several months before a female Navy uniform was ready.^[30] Francis Proven became WRANS number 1. From this initial intake of 14, the WRANS ranks expanded to some 2,600 by the end of the war, representing about 10 per cent of the entire Royal Australian Naval force at the time.^[34] All told, McKenzie trained about 3,000 women, one-third of whom went into the services.^[16] Many others remained at the Clarence Street school as instructors.



Dressed in the practical green uniforms designed by McKenzie, Corps members spell out W E S C in [flag semaphore](#).

In May 1941, the Air Force appointed McKenzie as an honorary flight officer of the Women's Auxiliary Australian Air Force,^[35] so she could legitimately instruct Air Force personnel.^[36] This was the only official recognition McKenzie received during the war for her efforts.

Postwar wireless training [edit]

Violet McKenzie helped with rehabilitation after the war, keeping her school open for as long as there was a need for instruction in wireless signalling. In the postwar years, she trained men from the merchant navy, pilots in commercial aviation, and others needing the trade qualification known as a "signaller's ticket". In 1948, a reporter from *Sky Script* visit to the school and described the scene, and the diversity of students:

At a table in a corner recently there were six elementary trainees: One was a Chinese quartermaster, another a half-Burmese. Two were Americans ... One ... an aircraft skipper down from New Guinea to get his wireless ticket; and the other chap a ship's officer with the same objective. In another corner there's an ANA commander preparing for his 20-word-a-minute exam: an English ship's wireless officer...an ex-RAF Wing-Commander...an Indian Navy man... [and] groups of airline 'types' also on the job.^[29]



Mrs McKenzie with overseas naval personnel, c1953

McKenzie told a journalist that, after the war, "All the airmen came back and wanted to join Qantas, but they needed to build up their Morse speed and learn to use the modern equipment."^[37] The Department of [Civil Aviation](#) fitted out a room at the school with transmitters, receivers and [radio compass](#) so that pilots could train for their wireless ticket at the school. From 1948, McKenzie held a First Class Flight Radio Telephony Operator Licence.

One of the ex-RAAF airmen who retrained for a civilian career with McKenzie wrote:

Being unemployed, we spent almost all of each weekday at the school, so if a tuition fee had been applicable, Mrs Mac would have earned a tidy sum of money. That, of course, was not her way of doing things. She required no payment for the training she provided, and I suspect that she was quite out of pocket over the whole affair... It would be true to say that a great number of the pilots whose futures were finally fulfilled in airlines in Australia owe a deal to Mrs Mac... There was no other school operating in Sydney at the time, providing Morse training to potential airline pilots, and no other school then or thereafter giving such training completely free of charge.^[38]

Famous aviators who trained for their wireless ticket at McKenzie's school include [Patrick Gordon Taylor](#) and [Cecil Arthur Butler](#). McKenzie also trained [Mervyn Wood](#), later Commissioner of Police in New South Wales, and the principals of the Navigation Schools at both the Melbourne and Sydney Technical Colleges.^[39]

According to a *People* magazine profile of McKenzie written in January 1953, McKenzie received an unceremonious notice from the owners of 10 Clarence Street to quit the premises. The [Sands Directory](#) indicates that she moved her operation briefly to No 6 Wharf at Circular Quay in 1953, before retiring to her home at Greenwich Point in 1954. McKenzie wrote that she closed the school when the airlines established their own school and the government added a signals training section to the Navigation School at the Technical College. She continued to help the occasional pupil with special difficulties at her home.^[28]

Later life [edit]

Correspondence with Einstein [edit]

In early 1949 McKenzie started writing to [Albert Einstein](#). Her first letter to him wished him a speedy recovery from recent illness.^[40] Two of her letters are held in the Einstein archives in Jerusalem. It is clear from the second letter that he wrote back to her at least once. Some accounts claim that McKenzie corresponded regularly with Einstein for as long as 15 years before his death in 1955,^[41] but the documentary record suggests such reports exaggerate the extent of the correspondence. She also sent him several gifts over the years including shells (for his daughter) that airmen would collect across the Pacific on her request^[6] and a boomerang which had been brought to her from Central Australia by an airline pilot. She wrote that, "Some of your mathematical friends might like to plot its flight!"^[42] There are other reports that she sent him a [didgeridoo](#), and a recording of didgeridoo music when he replied that he couldn't work out how to play the instrument.^[41]

Awards and honours [edit]

On 8 June 1950, McKenzie was appointed an Officer of the [Order of the British Empire](#) (OBE) for her work with the WESC.^[2] In 1957 she was elected a Fellow of the [Australian Institute of Navigation](#). In 1964 she became Patron of the Ex-WRANS Association. In 1979 she was made a Member of the [Royal Naval Amateur Radio Society](#).^[1] In 1980 a plaque celebrating her "skills, character and generosity" was unveiled at the Missions to Seamen Mariners' Church, [Flying Angel House](#). The Church has since relocated to 320 Sussex St, where the plaque can be seen in the garden.^[1]

Final years [edit]

Violet McKenzie was nine years older than her husband Cecil, but she outlived him by 23 years. After his death in 1958, she shared her house for a time with Cecil's sister Jean, a primary school teacher. In May 1977, after a stroke paralysed her right side and confined her to a wheelchair, McKenzie moved to the nearby Glenwood Nursing Home. She died peacefully in her sleep on 23 May 1982. At her funeral service, held at the Church of St Giles in Greenwich, 24 serving WRANS formed a Guard of Honour. McKenzie was cremated at the [Northern Suburbs Crematorium](#). The June 1982 edition of the newsletter of the Ex-WRANS Association was devoted to their former teacher and patron. Amongst the memories recorded therein is a statement McKenzie made two days before she died: "...it is finished, and I have proved to them all that women can be as good as, or better than men."^[43]

See also [edit]

- [Women in early radio](#)

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