

Anders Thiodolf Saelan – the botanising medicus

Henry Väre

Väre, H., *Finnish Museum of Natural History, Botanical Museum, P.O. Box 7, FI-00014 University of Helsinki, Finland.* henry.vare@helsinki.fi

Anders Thiodolf Saelan (1834–1921) was a notable non-professional botanist in late 19th and early 20th century Finland, and was amongst the most diligent writers of his time in the country, authoring five books, 75 articles, and 83 communications, for a total of 163 texts. Saelan was particularly known for writing extensive botanical reviews, such as *Herbarium Musei Fennici* in 1889 and “*Bibliography of Finnish botanical literature until the end of 1900*”. He described 59 taxa, including two species, *Hieracium linifolium* and *H. pilipes*, 19 varieties, 36 forms, and two subforms. Typifications of 44 names are provided in a separate article. Saelan’s type collection like other specimens are deposited at the Botanical Museum (H), Finnish Museum of Natural History, University of Helsinki, Finland. Saelan was an active member of the *Societas pro Fauna et Flora Fennica*, of which he became a member in 1856, eventually holding the position of vice-chairman 1872–1889 and chairman 1889–1892. He was also a member of the Printing Committee and was made an Honorary Member of the *Societas* on 5 November 1904.

Introduction

Anders Thiodolf Saelan (Fig. 1) was born in Lappeenranta, the Grand Duchy of Finland, on 20 November 1834. His parents were Anders Johan Saelan, a prison priest and primary school teacher, later vicar of Jämsä, and Antoinette Henriette Christine Müller. Saelan married Naemi Lovisa Vivika von Knorring (1850–1920) in 1873, and they had four children. Saelan died in Helsinki on 24 June 1921.

Saelan graduated from Porvoo secondary school in 1851. He went on to study natural sciences at the Imperial Alexander University of Finland (nowadays the University of Helsinki), receiving his Bachelor of Science degree on 15 May 1856, and Master’s degree on 29 May 1857. After that he studied medicine: Bachelor of Med-

icine 30 May 1859, Licentiate in Medicine on 22 May 1865, and Doctor of Medicine and Surgery on 1 June 1865. He was awarded the title of Professor in 1877, and in 1907 he was promoted to the Faculty of Philosophy at the University of Helsinki with both an honorary doctorate and a honorary master’s degree. After having reached an advanced age, he became a Jubilant Doctor of the Faculty of Medicine in 1917 (Aspelin 1879–1883, Renvall 1891, Carpelan 1903, Hagelstam 1921, Häyrén 1921, Elfving 1923, A. Palmgren 1925).

His dissertation, *Om självmordet i Finland i statistiskt och rättsmedicinskt hänseende* (“*Suicides in Finland, statistical and forensic thesis*”) (Hjelt & Saelan 1864), was the first Finnish study on suicides from a medical point of view. The opponent was Professor of Medicine Otto Edward



Fig. 1. Anders Thiodolf Saelan. Meddel. Soc. Fauna Fl. Fenn. 48. 1925.

August Hjelt (1823–1913), a highly distinguished expert on the history of Finnish botany.

Saelan wrote his publications in Swedish. Consequently, he used the Swedish names of municipalities and other localities if available, but the Finnish municipality names are used in this article. Table 1 lists both, as well as the biogeographical provinces (Fig. 2) in which they are located. Saelan made his career in Helsinki but travelled extensively throughout the country.

Career

Saelan was Extraordinary Physician to the Medical Board from 1861–1864, and Acting District Physician of Tornio and Lapland District 1864–1865. He was then Assistant Physician at Lapinlahti Hospital 1865–1868, and its Medical Superintendent 1868–1904. In his own time, he was Finland's most prominent specialist in psychiatry and mental illness for several decades.

In his spare time, Saelan was also a passionate plant enthusiast, and he had a record of acting as the Amanuence of the University of Helsinki Botanical Museum and Botanic Garden 1859–1866 before serving as its medical officer (Pitkänen 2008: 41).

Societas pro Fauna et Societas Fennica

During his high school years, Saelan became acquainted with Erik Niklander (1835–1856), a slightly older student, who took Saelan along on his botanical excursions. A lifetime of botanical pursuits began with these expeditions. He was elected as a member of the *Societas pro Fauna et Flora Fennica* (hereafter *Societas*) in 1856. *Societas*, Finland's oldest still-functioning scientific society, was founded in 1821, and was at that time the only specialist society dedicated to biology in the country. Saelan donated many specimens to the *Societas*, beginning already in the 1850's. He also wrote about the results of his excursions, e.g. he brought together data on plants in east Nyländia (Saelan 1858). Saelan served as the *Society's* intendent of botany from 1856 to 1866 ("Keeper of Plant Collections", *Suometar* 110, 14 May 1864). On at least one occasion, Saelan wrote an account of the *Societas's* monthly meeting in a Helsinki daily newspaper (Saelan 1863b).

He also acted as the *Society's* vice-chairman from 1872 to 1889, and chairman 1889–1892 (Saelan 1892e,o,s 1893c). He was made an Honorary Member of the *Societas* on 5 November 1904. Professor of Botany Johan Petter Norrlin (1842–1917) wrote a summary of his achievements for that event (*Meddeland. Soc. Fauna Fl. Fenn.* 31: 23).

When Professor of Physics Adolf Moberg (1813–1895) was chairman of the *Societas* in the 1850's and 1860's, Saelan helped him by deciding on the award of travel grants. Moberg was the key figure in organising phenological observations collected in Finland in the 19th century. He encouraged Saelan to collect such data, and Saelan (1878d) wrote that phenological observations should be made methodically as in Sweden.

Saelan was also a member of the Printing Committee. In this position, among his other responsibilities, he proofread the manuscripts of

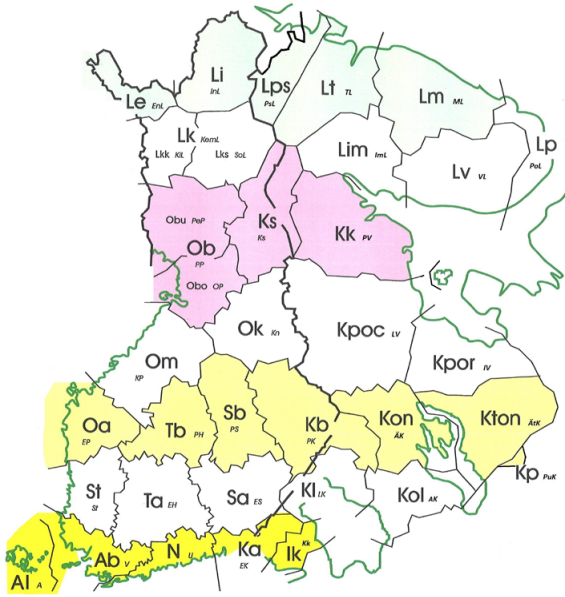


Fig. 2. Biogeographical provinces of eastern Fennoscandia today. Al / A = Aalandia / Ahvenanmaa; Ab / V = Regio aboensis / Varsinais-Suomi; N / U = Nylandia / Uusimaa; Ka / EK = Karelia australis / Etelä-Karjala; Ik / Kk = Isthmus karelicus / Karjalan kannas; St Satakunta; Ta / EH = Tavastia australis / Etelä-Häme; Sa / ES = Savonia australis / Etelä-Savo; Ki / LK = Laatokan Karjala / Karelia ladogensis; Kol / AK = Karelia olonetsensis / Aunuksen Karjala; Oa / EO = Ostrobothnia australis / Etelä-Pohjanmaa; Ta / PH = Tavastia borealis / Pohjois-Häme; Sb / PS = Savonia borealis / Pohjois-Savo; Kb / PK = Karelia borealis / Pohjois-Karjala; Kon / ÄK = Karelia onegensis / Äänisen Karjala; Kton / ÄTK = Karelia transonegensis / Äänisentakainen Karjala; KP / PuK = Karelia Pudogensis / Puutoisten Karjala; Om / KP = Ostrobothnia media / Keski-Pohjanmaa; Ok / KN = Ostrobothnia kajanensis / Kainuu; Kpoc / LV = Karelia pomorica / Länsi-Viena; Kpor / IV = Karelia pomorica orientalis / Itä-Viena; Obo / OP = Ostrobothnia ouluensis / Oulun Pohjanmaa; Obu / PeP = Ostrobothnia ultima / Perä-Pohjanmaa; Ks / Ks = Regio kuusamoënsis / Koillismaa; Kk / PV = Karelia keretina / Pohjois Viena; Lkk / KiL = Lapponia kittilensis / Kittilän Lappi; Lks / Sol = Lapponia sompiensis / Sompion Lappi; Lim / ImL = Lapponia Imandrae / Imanteron Lappi; Lv / VL = Lapponia Varsugae / Varsugan Lappi; Lp / PoL = Lapponia ponojensis / Ponojin Lappi; Le / EnL = Lapponia enontekiensis / Enontekiön Lappi; Li / InL = Lapponia inarensis / Inarin Lappi; Lps / Psl = Lapponia petsamoënsis / Petsamon Lappi; Lt / TL = Lapponia tulomensis / Tuloman Lappi; Lm / ML = Lapponia murmanica / Muurmannin Lappi. (Kotiranta et al. 1998).

Table 1. List of localities Saelan used in his articles, always in Swedish, and their Finnish equivalent. If lacking in Saelan, municipality or city is given, and the biogeographical province (Fig. 2).

Swedish name	Finnish name	Biogeographical province	Swedish name	Finnish name	Biogeographical province
Aspö	Haapasaari	Ka/EK	Lappvik	Lappohja, Hanko	N/U
Barkarila	Parkkarila, Lappeenranta	Sa/ES	Lappviken	Lapinlahti, Helsinki	N/U
Birkkala	Pirkkala, Tampere	Ta/EH	Larsmo	Luoto	Om/KP
Borgå	Porvoo	N/U	Libelits	Liperi	Kb/PK
Eckerö	Eckerä	Al/A	Lojo	Lohja	N/U
Ekenäs	Tammisaari, Raasepori	N/U	Miehikkälä	Miehikkälä	Ka/EK
Enare	Inari	Li/InL	Monrepos	Viipuri	Ka/EK
Fagervik	Inkoo	N/U	Myllysaari	Viipuri	Ka/EK
Fiskars	Raasepori	N/U	Mäntsälä	Mäntsälä	N/U
Fredrikshamn	Hamina	Ka/EK	Mörskom	Myrskylä	N/U
Gamlakarleby	Kokkola	Om/KP	Nokia	Nokia	Ta/EH
Haikko	Porvoo	N/U	Nyslott	Savonlinna	Sa/ES
Helsingfors	Helsinki	N/U	Parkano	Parkano	St/St
Hiittis	Hiiti	N/U	Pernå	Pernaja	N/U
Hogland	Suursaari	Ka/EK	Pojo	Pohja, Raasepori	N/U
Hoilodal	Hoilola, Joensuu	Kb/PK	Polvijärvi	Polvijärvi	Kb/PK
Hvitträsk	Kirkkonummi	N/U	Pyttis	Pyhtää	N/U
Högsand	Hanko	N/U	Raumo	Rauma	St/St
Impilahti	Impilahti	Ki/LK	Runsala	Ruissalo, Turku	Ab/V
Ingå	Inkoo	N/U	Savitaipale	Savitaipale	Sa/ES
Jalassaari	Lohja	Ab/V	Seitalax	Seitalahti, Porvoo	N/U
Juga	Juuka	Kb/PK	Sumparn	Sompasaari, Helsinki	N/U
Kajsaniemi	Kaisaniemi, Helsinki	N/U	Strömfors	Ruotsinpyhtää	N/U
Fiskarhalvön	Kalastajasaarento	Lps/PsL	Sund	Sund	Al/A
Kalvola	Kalvola	Ta/EH	Svartå	Mustio, Raasepori	N/U
Karis	Karjaa	N/U	Sörnäs	Sörnäinen, Helsinki	N/U
Karisalmi	Viipuri	Ki/LK	Taipalsaari	Taipalsaari	Sa/ES
Karislojo	Karjalohja	Ab/V	Tavastehus	Hämeenlinna	Ta/EH
Kaukaa	Lappeenranta	Sa/ES	Tohmajärvi	Tohmajärvi	Kb/PK
Kides	Kitee	Kb/PK	Torneå	Tornio	Obo/PeP
Kontiolax	Kontiolahti	Kb/PK	Tusby	Tuusula	N/U
Kuusamo	Kuusamo	Ks/Ks	Valamo	Sortavala	Ki/LK
Kuusankoski	Kouvola	Ka/EK	Vasa	Vaasa	Oa/EP
Kymmene	Kymi, Kotka	Ka/EK	Vederlax	Virolahti	Ka/EK
Kyrkslätt	Kirkkonummi	N/U	Viborg	Viipuri	Ka/EK
Kyrönsalmi	Savonlinna	Sa/ES	Willmanstrand	Lappeenranta	Sa/ES
Labbom	Jaakkola, Myrskylä	N/U	Åbo	Turku	Ab/V

the *Conspectus Florae Fennicae* of Hjalmar Hjelt (1851–1925). Hjelt compiled (1888–1926) the available data on the distribution of Finnish vascular plants. It is a monumental reference work – still priceless even today. It consisted of seven volumes, totalling 3 015 pages, wherein the distribution data of ca. 1 470 taxa growing in eastern Fennoscandinavia were detailed.

Field trips

East Nylandia

During the summers of 1854 and 1855, Saelan made excursions in the municipalities of Pernaja and Porvoo. In the summer of 1856, he and Johan Elias Strömborg (1833–1900) explored the flora of east Nylandia with the help of a travel grant awarded by the *Societas*. They also sailed to the islands of Haapasaari and Suursaari. There, they discovered *Cinna latifolia* and *Najas tenuissima* (Saelan 1858, 1859a), the first ones in Finland, and *Alisma wahlenbergii* at Pyhtää, Munapirtti. These all are threatened in Finland. *Alisma* was only found 166 years later, in 2022! (Kaakkois-Suomen ELY-keskus 4.10.2022, <https://www.sttinfo.fi/tiedote/>). The number of vascular plants known from Suursaari was increased to 417, including 15 ferns. Later, the flora of Suursaari was studied in depth by Mårten Magnus Brenner (Väre 2021a). A total of 625 vascular plant taxa were identified: 457 dicotyledons, 168 dicotyledons, and 23 ferns. Saelan used the system of Elias Fries (1794–1878) to categorize these discoveries; e.g., the names *Nemeae* and *Heteronemeae* were used for ferns. He later supplemented the species list with a few additional plants (Saelan 1859b,c). That article was published in two series. Although Brenner had studied the flora of Suursaari with care, Saelan (1900c) found a further 21 new species there. As new to science, he described three forms; *Festuca rubra* f. *sabulosa*, *Verbascum thapsus* f. *virescens*, and *Viola tricolor* f. *odora*.

Arvi Ulvinen (1971) has clarified Saelan's contribution to the study of east Nylandian flora and has compiled a detailed travelogue based on Saelan's diaries (only discovered in 1971) and the specimens held at the Helsinki Botanical Museum (Ulvinen 1974). Sixty-two collection sites

were identified, and the most significant discoveries are mentioned for each. The diaries make it possible to locate places of discovery that were only vaguely described in the publication (Saelan 1858).

Lapland 1864

Arvi Ulvinen's son, Tauno Ulvinen, donated Saelan's travel notes from an excursion to Lapland in 1864 to the author of this article. So far, nothing has been published about this excursion. The content of the notes mainly focuses on travel-time experiences, and plant observations are scarce, mostly regarding crops. The travel notes will be deposited in the Botanical Museum archive of the University of Helsinki.

Extensive book projects

Herbarium Musei Fennici

As intendent of the *Societas*, Saelan organized its collections of Finnish vascular plants, work that Karl Edvard von Bonsdorff (1829–1894) and his deputy, Erik Niklander, had begun (Elfving 1921: 107). The collections of the *Societas*, that of Professor of Anatomy and Physiology Evert Julian Bonsdorff (1810–1898) and those of the Imperial Alexander University of Finland, were merged in 1858 into one collection, today belonging to the Botanical Museum of the University of Helsinki. The famous lichenologist William Nylander (1822–1899) was elected Professor of Botany in the same year. Soon after, Nylander & Saelan (1859) published a catalogue of the collections of the Botanical Museum, entitled *Herbarium Musei Fennici*.

Another treatment followed in the 7th edition of the *Scandinavian flora* of Hartman (1858). The taxa were catalogued according to the biogeographical provinces (14) of eastern Fennoscandinavia (Fig. 3). Russian Karelia and Kola Lapland were extensive biogeographical provinces located east of the present border between Finland and Russia and were later subdivided into smaller subdivisions.

This work was the first list of all plants and fungi, of which there was a specimen in the Botanical Museum, collected from this area. The



Fig. 3. Biogeographical provinces of eastern Fennoscandia (Nylander & Saelan 1859).

number of identified vascular plant taxa was 1 025 (Table 2); algae 86, bryophytes 345 (of which 72 hepatics), lichens 454, and fungi 362, for a total of 2 186 taxa.

During these years Saelan was the top vascular plants expert in Finland. When Nylander was on leave of absence in 1861, Saelan took over his duties in the University.

Finnish floras

There were many shortcomings in the first edition of *Flora of Finland* (Lönnrot 1860), which Saelan took part in correcting in the second edition (Lönnrot & Saelan 1866). The first edition

was a translation of Hartman's (1858) *Scandinavian flora*, which contained very incomplete data on the flora of Finland. Lönnrot had not only ignored many species that grew from Finland, but also made many mistakes that needed to be corrected.

Otto Alcenius (1838–1913) wrote a text about flora intended for students (Alcenius 1863), of which Saelan wrote a very negative review. According to Saelan, the work did not meet the requirements for an educational text on flora. There were too many errors, and Alcenius did not have sufficient first-hand experience with the plant species (Saelan 1863a). However, several editions of Alcenius' book were nevertheless used in



Fig. 4. Biogeographical provinces of eastern Fennoscandia (Saelan et al. 1889).

Swedish-language schools until the 1960's, with the last, 13th edition appearing in 1958 (Alenius & Nordström 1958). Errors were corrected in later editions.

Herbarium Musei Fennici, ed. 2

Saelan had suggested as early as 1865 that a new edition of the *Herbarium Musei Fennici* should be written. Collection trips funded by the *Societas* had produced a wealth of new material since the original publication. In 1869 a team was formed to write the second edition, comprised of Professor of Botany Sextus Otto Lindberg Lindberg (1835–1889), Extraordinary Professor Anders Jo-

han Malmgren (1834–1897), world famous Mycologist Petter Adolf Karsten (1834–1917), and Saelan. Saelan was given responsibility for promoting the work. The detailed treatment followed the system of DeCandolle.

A regional map was also included, wherein the biogeographical division of Finland took on its almost final form (Fig. 4). This division had been prepared by a committee comprised of law student Nils Isak Fellman (1841–1902), teacher at the forestry training school Johan Emil Furuholm (1834–1901), S. O. Lindberg, Professor of Zoology John (Johan) Renhold Sahlberg (1845–1920), Amanuensis in Botany Johan Petter Norrlin (1842–1917), and Saelan.

In the north and east, the regional division primarily followed political boundaries, but the southern shore of the Varanger Fjord (today part of Norway) was incorporated as a biogeographical part of Fennoscandia. On the other hand, *Lapponia enontekinsis* was omitted, but the taxa were noted. That area was explained to be more naturally part of the Scandinavian mountain region (as it is in the northwest). At first it was to be called Muonio Lapland. In the east, the borders run from the White Sea (Vienanmeri in Finnish) along the river Vyg (Uikujoki) to Lake Onega (Ääninen), then along the river Svir (Syväri) to Ladoga (Laatokka) and across the Isthmus Kareliscus to the Gulf of Finland.

Eastern Fennoscandia was now divided into 28 biogeographical provinces, in place of the previous 14. For example, the old provinces Tavastia (Häme) and Savonia (Savo) were both divided into southern and northern provinces (Tavastia australis and borealis, Savonia australis and borealis). Kemi Lapland (*Lapponia kemensis*), Ostrobothnia, Karelia rossica, *Lapponia* and *Lapponia rossica* were divided into several new provinces (compare Figs. 3 and 4). In contrast to the first edition, the territory of Ruija (northern Norway), had been omitted. The boundaries of the new map were drawn in 1871. The same division was followed in the subsequent volumes of *Meddelanden* published by the *Societas* until 1901–1903.

The completion of the work was delayed when Saelan was appointed to the Lapinlahti Hospital. In 1876 Hjalmar Hjelt was now hired to help with the work. This was the first time the *Societas* had allocated money for purposes other than excursions. In 1877, Hjelt proposed that a list of species for which biogeographical distribution data was needed should be prepared, to be printed and distributed to botanists (Hj. Hjelt 1877).

In the *Societas*' 1879 Annual Report, Norrlin announced that the work had progressed swiftly and students Alfred Oswald Kihlman (later Kairamo) (1858–1938), Johan Israel Axel Arrhenius (1858–1950) and Hans Brynolf Hollmén (1855–1891) took part in preparing the list. They all assisted also in arranging the collections of the Botanical museum.

However, the work then slowed down because Hjelt had to return to Vaasa to serve as a lecturer

Table 2. Number of taxa in various summaries of Finnish flora. The species number conforms to the species concept of its time, many subspecies are now interpreted as species, or vice versa. Apomicts genera *Hieracium* and *Taraxacum*, and *Ranunculus auricomus*-group are each counted as one taxon. The numbers are tricky to compare, however.

Kalm 1765	533
A. E. Nylander & Chydenius 1852	881
W. Nylander & Saelan 1859	1025
<i>Helsingfors Dagblad</i> 114:1, 18.5.1868	1059
Brenner 1886	1267
Saelan et al. 1889	1049
Hj. Hjelt (1888–1926)	1470
Hj. Hjelt (1890–1891)	1072
Anonymous 1900	1132
Lindberg 1901	1290
World War I and II	
Erkamo 1949	1140

in mathematics. Now the students Arrhenius, and Kihlman in particular, took responsibility for the task, and the work was eventually printed (Saelan et al. 1889). Researchers of the Botanical museum also supported the project; Norrlin especially studied the genus *Hieracium*, and Fredrik Emil Wolmar Elfving (1854–1942) organized the cryptogamic collections. Prof. S. O. Lindberg unfortunately died the same year the work was published. The systematic treatment followed the work of August Wilhelm Eichler (1839–1887). The number of biogeographical provinces was now set at 29.

The first editions of *Herbarium Musei Fennici* mentioned 1 025 vascular plant taxa (Nylander & Saelan 1859, Table 2), of which 930 species were accepted in second edition. In addition, first edition listed seven hybrids, 33 varieties or forms, 12 casual aliens or only in Enontekiö Lapland growing, and eight uncertain taxa. The second edition list's 1 047 vascular plant taxa, with an additional 59 hybrids and 85 varieties. A list of bryophytes was published separately (Bomansson & Brotherus 1894), but no new summaries were published for algae, lichens, or fungi.

Arrhenius was responsible for the determinations most of the *Caryophyllaceae*, *Cyperaceae*, *Lamium*, *Mentha*, and *Salix*, and Swedish botanists Svante Murbeck (1859–1946) of the *Viola*,

Sigfrid Oscar Immanuel Almquist (1844–1923) of the *Calamagrostis* and *Carex*, and Axel Nicolaus Lundström (1847–1905) of the *Salix*, partially. The northern limits of the distributions were given by Hjelt. The work was evaluated as a source of great inspiration to researchers of the time (Hult 1890).

New taxa

Saelan described two new species (*Hieracium*), 35 new forms, and 20 new varieties, for 57 new entries in total. Of these, 44 are lectotypified in a separate article (Väre 2023).

Hieracium

Saelan (1861b) determined the *Hieracium* collected by A. J. Malmgren from Southern Ostrobothnia, and some *Hieracium* collected in the Helsinki region (Saelan 1871c). For the *Herbarium Musei Fennici*, Saelan studied the *Hieracium*, and described two taxa new to science: *H. linifolium* and *H. pilipes* (Saelan 1874d, 1878a, 1881a). The description of *H. linifolium* was based on Norwegian material (Saelan 1874d). The description of *H. pilipes* was also referenced abroad [*Botanische Centralblatt* 4(13): 81 (1883), *Botaniska Notiser* 1882: 19–20].

Nomina nuda

In many of his publications, Saelan mention scientific names (Väre 2022) for which he did not give a description (43), and consequently these are all invalid, *nomina nuda* (Greuter et al. 2000: art 36.1); four more examples were rendered invalid because they were subordinated to a hybrid formula rather than a species name. Saelan also made many nomenclatural combinations, however many of them were probably not novelties.

Bibliographies

Saelan (1861a, 1867) was interested in the early history of publications treating Finnish flora. He arranged these publications chronologically by persons. For example, the very first botanical

dissertation defended in Finland was a metaphysical representation of the essence of plants, entitled "On the birth and decay of natural bodies" (Alanus & Lidenius 1643). The dissertation was supervised by Georgius Alanus (1609–1664), first Professor of Natural Sciences at the Old Academy of Turku. He also published a compilation of articles written between 1866 and 1870 in Sweden (Saelan 1871a).

An invaluable summary of early Finnish botanical publications appeared in 1916. It has about 6000 source references, and in addition to botany also included works on agriculture, horticulture, forestry, and medical bacteriology, among other disciplines (Saelan 1916a). The bibliography received an highly complimentary reception (Fr. Elfving 1917, Linkola 1917, R. Palmgren 1917, Wecksell 1917).

A corresponding reference work covering the years 1901–1935 was planned by Professor Fr. Elfving and Extraordinary Amanuensis of the Botanical Museum Kaarlo Linkola (1888–1942) (A. Palmgren 1936). This remained as a plan, but Collander et al. (1973) eventually completed the bibliography for 1901–1950.

The last article by Saelan (1916b) was a bibliographic one. He donated to the society an old manuscript that he had bought at an auction, in which was contained texts once owned by Professor of Botany Johan Magnus af Tengström (1793–1856). The manuscript was an unpublished part of Lars Johan Prytz's (1789–1823) thesis series, aimed at presenting the flora of Finland. The manuscript had been published by O. E. A. Hjelt (1869).

Floristic articles and communications

New taxa to Finland

Most of Saelan's articles were brief communications that introduced new (36) taxa to Finland, including areas of former Finland (Table 3) (eastern territories of Finland occupied by the Soviet Union in 1945). He wrote of only a few genera more than once: *Aspidium* = *Dryopteris* / *Thelypteris* (Saelan 1892a,b,d, 1895a), *Impatiens parviflora* (Saelan 1880c, 1881c), *Larix* (Saelan 1880b, 1881c), *Tilia* (1880a), and on *Nymphaea* (Saelan 1881h, 1881i, 1894a, 1896f, 1900e, 1907a).

Table 3. New taxa to Finland reported by Saelan.						
		ref.	area	bp	collector(s)	
<i>Beta maritima</i> = <i>vulgaris</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Betula nana</i> × <i>verrucosa</i> = <i>pendula</i>	ind.	1886h	Parkano	St	Hj. Hjelt	
<i>Calamagrostis</i> × <i>gracilescens</i>	ind.	1883a	Valamo	Kl	Th. Saelan	
<i>Cardamine silvatica</i> = <i>flexuosa</i>	ind.	1881b	Ahvenanmaa	A	Th. Saelan	
<i>Centaurea nigra</i>	cas.	1886f	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Cephalanthera rubra</i>	ind.	1881h	Lohja	Ab	E. Wallén	
<i>Corrigiola litoralis</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Draba muralis</i>	ind.	1881b	Ahvenanmaa	A	Th. Saelan	
<i>Epilobium adnatum</i> = <i>tetragonum</i>	cas.	1886f	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Epilobium alsinifolium</i> × <i>palustre</i>	ind.	1883f	Kuusamo	Ks		
<i>Erigeron canadensis</i>	est.	1876	Helsinki, Sompasaari	N	Th. Saelan	
<i>Eritrichium villosum</i>	ind.	1888b	Hiipinä	Lim	V. F. Brotherus	
<i>Euphorbia exigua</i>	cas.	1888e	Turku castle	Ab	John Lindén	
<i>Galium tricorne</i> = <i>tricornutum</i>	cas.	1886g	Haikko	N	Th. Saelan	
<i>Helosciadium nodiflorum</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Herniaria hirsuta</i>	cas.	1888e	Turku castle	Ab	John Lindén	
<i>Juncus glaucus</i> = <i>inflexus</i>	cas.	1888e	Turku castle	Ab	John Lindén	
<i>Lathyrus aphaca</i>	cas.	1888e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Linaria</i> = <i>Kickxia elatine</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Linaria</i> = <i>Kickxia spuria</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Linaria supina</i>	cas.	1888e	Turku castle	Ab	John Lindén	
<i>Lupinus angustifolius</i>	cas.	1888f	Turku castle	Ab	John Lindén	
<i>Luzula angustifolia</i> = <i>luzuloides</i>	est.	1886a	Lappeenranta	Sa	Th. Saelan	
<i>Lychnis alpina</i> × <i>viscaria</i> = <i>Viscaria alpina</i> × <i>vulgaris</i>	ind.	1883c	Viipuri, Monrepo	lk	Th. Saelan	*
<i>Medicago arabica</i>	cas.	1886f	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Medicago denticulata</i> = <i>polymorpha</i>	cas.	1888f	Helsinki	N	J. A. Tamlander	
<i>Melandrium album</i> × <i>M. rubrum</i> = <i>Silene latifolia</i> subsp. <i>alba</i> × <i>dioica</i>	ind.	1904h	Suursaari	Ka	Th. Saelan	
<i>Nymphaea tetragona</i> (as <i>candida</i>)	ind.	1881h	Nurmes	Kb	Th. Saelan	
<i>Panicum</i> = <i>Echinochloa grus-galli</i>	cas.	1886f	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Polypogon monspeliensis</i>	cas.	1886f	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Potamogeton</i> × <i>nitens</i>	ind.	1888c	Sund	A	John Lindén	**
<i>Pyrola minor</i> × <i>rotundifolia</i>	ind.	1888a,m	Kittilä	Lkk	Hj. Hjelt & R. Hult	***
<i>Psamma</i> = <i>Calamagrostis arenaria</i>	cas.	1888e	Bomarsund	A	John Lindén	
<i>Psamma</i> = <i>Calamagrostis arenaria</i>	ind.	1906a	Hanko, Lappohja	N		
<i>Roemeria hybrida</i> = <i>Papaver bivale</i>	cas.	1888l	Vaasa	Om	W. Laurén	
<i>Sagina</i> = <i>Sabulina verna</i>	ind.	1883d, 1885a	Impilahti	Kl	Hjalmar Neiglick	
<i>Salix myrtilloides</i> × <i>rosmarinifolia</i> = <i>repens</i> subsp. <i>rosmarinifolia</i>	ind.	1893a	Myrskylä	N	Th. Saelan	
<i>Salix nigricans</i> = <i>mysinifolia</i> × <i>phylicifolia</i>	ind.	1881j	Helsinki	N	Th. Saelan	
<i>Schoenodorus</i> = <i>Bromopsis erecta</i>	cas.	1888f	Helsinki, Kaisaniemi	N	Th. Saelan	
<i>Silene mucscipula</i>	cas.	1888l	Vaasa	Om	W. Laurén	
<i>Sisymbrium austriacum</i>	cas.	1888g,l	Vaasa	Om	W. Laurén	
<i>Spergularia marina</i>	cas.	1883e,f	Porvoo	N		
<i>Stachys annua</i>	cas.	1888e	Viipuri	Ka	E. Gustafsson	
<i>Ulex europaeus</i>	cas.	1888f	Turku castle	Ab	John Lindén	
<i>Utricularia neglecta</i>	ind.	1883c	Lappeenranta	Sa	Th. Saelan	
<i>Valerianella rimosa</i>	cas.	1888f	Turku castle	Ab	John Lindén	
<i>Verbena officinalis</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	
<i>Vicia gracilis</i> = <i>parviflora</i>	cas.	1886e	Turku castle	Ab	John Lindén & Enzo Reuter	

* also back-crossings f. *subalpina* and f. *subviscaria*, ** *P. gramineus* × *perfoliatus*, *** Kihlman (1894: 255)

Indigenous and naturalised alien flora

Saelan wrote a further 40 articles and communications on indigenous and naturalised flora (Table 4). Eleven non-hybrid taxa were reported as new to Finland, including three woody ones. Other dendrological communications are listed in the chapter on dendrology. Three hybrids were reported as new to Finland.

Table 4. Rare indigenous and established vascular plant taxa reported by Saelan and other botanical observations.

1. *Erigeron mulleri* = *E. acris* subsp. *acris*, *Botrychium boreale* and *Matricaria discoidea*, Helsinki, Nylandia (Saelan 1874a).
2. *Carex paludosa* = *acutiformis*, Tuusula, Nylandia (Saelan 1874b).
3. *Najas fragilis* f. *tenuissima* = *N. tenuissima* in Monrepos, Vyborg [Viipuri], Nylandia (Saelan 1876).
4. *Senecio jacobea* was re-found at Kuusankoski, Tavastia australis (Saelan 1878b).
5. *Impatiens parviflora* was found in 1874 in Helsinki, Nylandia, where it was likely spread from the Botanical gardens, where it had been cultivated at least since the 1850's (Saelan 1880c).
- 6a. *Draba muralis*, Alandia, was reported as new to Finland (Saelan 1881b), however, it had been reported from Finland before (Kalm & Granlund 1765).
- 6b. *Festuca duriuscula* = *F. rubra* subsp. *rubra* in Turku, Regio aboensis, new to Finland, according to taxonomic concept of the time (Saelan 1881b).
- 6c. *Hieracium auriculaeforme*, Helsinki, Nylandia (Saelan 1881b).
- 6d. Some *Taraxacum*, Alandia, eg. *Taraxacum officinale* **erythrospERMUM* (Saelan 1881b).
7. *Galium aparine* subsp. *aparine*, Helsinki, Nylandia (Saelan 1881f).
8. *Trisetum flavescens*, Lappeenranta, Savonia australis; Saelan found *Monotropa hypopitys* = *Hypopitys monotropa*, which had a long root with coral parts and assumed that it would be capable of non-parasitic nutrient uptake (Saelan 1881h).
9. Lecturer Nervander discovered *Scleranthus perennis* in Viipuri, the previous observation was by W. Nylander, Viipuri, Monrepo, in 1851 (Saelan 1881i).
10. How to identify *Nymphaea alba* and *N. candida* (Saelan 1881j).
11. Flowering *Hydrocharis morsus-ranae* in Valamo, Karelia ladogensis (Saelan 1883b).
12. *Botrychium lanceolatum* and *B. matricariifolium* in Lappeenranta, new to Savonia australis (Saelan 1883c).
13. H. Backman discovered *Monotropa hypopitys* = *Hypopitys monotropa* in Impilahti, new to Karelia ladogensis (Saelan 1886d).
14. Discovery of *Epipogium aphyllum* by Madame Backman in Impilahti, Karelia ladogensis (Saelan 1888g).
15. Dr. A. R. Spoof found *Srophularia nodosa* with yellowish brown flowers at Turku, Ruissalo, Regio aboensis (Saelan 1888k).
16. *Aspidium thelypteris* = *Thelypteris palustris* was more closely related to *Phegopteris polypodioides* = *P. connectilis* than to the *Aspidium* = *Dryopteris* (Saelan 1892a, 1895a). German summary by Kihlman (1894: 175).
17. *Aspidium* = *Dryopteris cristatum* × *A. spinulosum* = *D. carthusiana* in Lappeenranta, Savonia australis (Saelan 1892b).
18. *Aspidium thelypteris* = *Thelypteris palustris* and closely related Polypodiaceae (Saelan 1892d).
19. H. Sundelin collected *Scilla siberica* in Vyborg [Viipuri], Karelia australis; *Sagittaria sagittifolia* f. *subintegrifolia* in Taipalsaari, Savonia australis (Saelan 1893b). The latter is *S. natans* × *sagittifolia*.
20. Dr. J. Edv. D:son Iverus found *Nymphaea candida* f. (Saelan 1881h) proved to be *N. tetragona* Georgi, Tohmajärvi, Karealia borealis (Saelan 1894a).
21. On a swamp in Karjaa, Nylandia, grew all our *Drosera* species, as well as *D. intermedia* × *longifolia* = *anglica* and *D. longifolia* = *anglica* × *rotundifolia* (Saelan 1895c).
22. Form of *Galeopsis versicolor* = *speciosa* with purple flowers (Saelan 1895d), this specimen was *G. pubescens*.
23. Sterile *Plantago uniflora*, lake Puujärvi, Karjalohja [Lohja], Regio aboensis (Saelan 1896a).
24. *Thlaspi alpestre* = *Noccaea caerulescens*, Lapinlahti, Helsinki, Nylandia (Saelan 1896c).
25. *Parnassia palustris* var. *tenuis*, Pisisaari, Virolahti, Karelia australis (Saelan 1896e).
26. *Nymphaea alba* f. *erythrostigma*, Säkäjärvi, Virolahti, Karelia australis (Saelan 1896f). Southernmost locality in Finland.
27. *Drosera longifolia* × *rotundifolia*, Längholmen, Porvoo archipelago, Nylandia (Saelan 1898a).
28. *Batrachium divaricatum* var. *oligandrum* = *Ranunculus aquatilis* var. *diffusus*), Väссö, Porvoo archipelago, Nylandia (Saelan 1898b).
29. *Poa compressa*, Lapinlahti, Helsinki, Nylandia (Saelan 1900d).
30. *Nymphaea tetragona*, Karelia (Saelan 1900e).
31. *Galeopsis versicolor* f. *purpurea*, Juuka, Karelia borealis, and Helsinki, Nylandia (Saelan 1901b).
32. *Scirpus* = *Eleocharis parvula*, Helsinki, Nylandia (Saelan 1902a).
33. *Luzula angustifolia* = *luzuloides*, Kaukaa, Lappeenranta, Savonia australis (Saelan 1902c).
34. *Cirsium heterophyllum* × *palustre* in Kontiolahti, *Betula nana* × *verrucosa* = *pendula* and *Drosera longifolia* = *anglica* × *rotundifolia*, Juuka, *Carex flava* × *oederi* = *viridula* in Polvijärvi, all new to Karelia borealis (Saelan 1904b).
35. *Geum aleppicum*, Kyrönsalmi, Savonia australis since 1880, *Galium mollugo* = *album* × *verum* in Kyrönsalmi, *Geranium palustre* in Pohja, Nylandia, *Malachium* = *Stellaria aquatica* in Hvitträsk, Kirkkonummi, Nylandia (Saelan 1904c).
36. *Nymphaea candida* f. *rosea* by Professor Emil Houghberg, Näkkälänjärvi, Karisalmi, Karelia ladogensis (Saelan 1907a).
37. *Anthyllis vulneraria*, Savitaipale, Lappeenranta, Savonia australis (Saelan 1909b).
38. *Anemone hepatica* = *Hepatica nobilis* f. *marmorata* in Lappeenranta, Savonia australis; *Hypochoeris radicata* with dissected leaves in Miehikkälä, Karelia australis (Saelan 1909c).
39. *Poa compressa*, Kaukaa, Lappeenranta, new to Savonia australis and *Anemone hepatica* = *Hepatica nobilis* f. *marmorata*, Lappeenranta, Savonia australis (Saelan 1910a).
40. *Myriophyllum verticillatum* f. *intermedia*, lake Saimaa, Kaukaa, Lappeenranta, new to Savonia australis (Saelan 1911).
41. *Cerastium semidecandrum* and *Trifolium arvense*, Klobbsund, *Convolvulus sepium* and *Mentha arvensis* subsp. *arthenii* = *M. × gracilis* 'Arrhenii', Thorsvik, all in Kirkkonummi, Nylandia (Saelan 1914).

Casual alien flora

Saelan wrote 21 communications on casual aliens (Table 5). Of these, 24 were new to Finland. He also communicated about the records regarding casual aliens gathered by Iverus (1900, 1910) in Loviisa, Nylandia.

Dendrology

Saelan wrote 22 dendrological communications on the subject of dendrology (Table 6). Three woody taxa, all hybrids, were identified as new to Finland. Two more woody taxa are listed in the chapter on teratology. *Fagus sylvatica* f. *purpurea* made ripe fruits in Fagervik manour, Inkoo, Nylandia (Saelan 1896d). *Amelanchier canadensis* = *spicata* was found as naturalised in Kirkkonummi, Nylandia (Saelan 1907b). The former is today becoming naturalised in SW Finland (Tenhola village), while the latter is considered an invasive and harmful alien.

Teratology

Saelan also wrote some teratological communications. **1.** Of *Picea abies*, on which the branch continued to grow through the cone (Saelan 1871b); **2.** Exceptionally large deformed potatoes of *Solanum tuberosum* were found in Mäntsälä (Saelan 1881d); **3.** *Leontodon* = *Scorzoneroideis autumnalis* with deformed capitula (Saelan 1892r), of which Kihlman (1894: 175) compiled a summary in German; **4.** Deformed *Juniper communis* (Saelan 1895b); **5.** Deformed *Bellis perennis* in Helsinki (Saelan 1896b); **6.** Potato tuber that developed an underground stem that produced a tuber (Saelan 1902b).

Bryology

During the winter of 1860–1861 Saelan was a guest researcher in Sweden, where Professor Nils Johan Andersson (1821–1880) allowed Saelan to familiarize himself with his bryophyte collections. The visit was necessary due to the *Societas*' support of a biological expedition to the Kola Peninsula and Russian Karelia that took place in 1861. Students Gustaf Selin (1836–1862) and Nils Isak Fellman (1841–1902), mycologist Petter Adolf Karsten (1834–1917), and entomologist

Table 5. Casual alien taxa reported by Saelan.

1. In 1878 Saelan (1880d) found 23 rare casual aliens at Sörnäinen loading site, Helsinki, Nylandia, e.g. *Carduus tenuiflorus*, *Rumex obtusifolius* var. *divaricatus* = *R. obtusifolius* subsp. *obtusifolius*, *Senebiera* = *Lepidium coronopus*, *S. didymus* = *L. didymum*, *Schoberia* = *Suaeda maritima* and *Veronica persica*.
2. *Phlomis tuberosa* had naturalised at Frugård Manor in Mäntsälä (Nylandia) since the middle of the 18th century (Saelan 1886b).
3. Nervander had collected recently introduced *Matricaria discoidea* from the Botanical gardens (Helsinki, Nylandia) in 1849 and the plant was now spreading rapidly across the country (Saelan 1886c).
4. E. Estlander collected *Marrubium vulgare* in Sörnäinen, Helsinki, Nylandia (Saelan 1888g, 1916a).
5. Lector Strömborg collected *Sherardia arvensis* in Porvoo, Nylandia (Saelan 1888j).
6. H. Sundelin collected *Setaria viridis* in Taipalsaari, Savonia asutralis (Saelan 1893b).
7. E. Houghberg collected *Silene dichotoma* in Pitkämäniemi, Nokia, Tavastia australis (Saelan 1906c).

Table 6. Dendrological communications by Saelan.

1. On the dioceus flowers of *Salix myrsinifolia* and *S. phlyicifolia* (Saelan 1871c).
2. Naturalised *Quercus robur* in Kalvola, Tavastia australis (Saelan 1871d).
- 3a. Lecturer [Nils Karl] Nordenskiöld had established an arboretum at the Frugård estate in Mäntsälä (Nylandia) in the 1850's, *Pinus pichta* = *Abies sibirica* made seed there (Saelan 1878b). Professor Lindberg pointed out that *Pinus pichta* brought from the Urals 32 years ago and planted here in the Botanical gardens have produced plenty of new seedlings in recent years.
- 3b. *Picea* = *Abies balsamea* was cultivated in Sumparn [Sompasaari] Helsinki (Saelan 1878b).
4. *Tilia platyphylla* on the Esplanade in Helsinki (Nylandia) in 1876. It also grew in Stansvik manor, Laajasalo, Helsinki. *T. vulgaris* = × *europa* is the hybrid between it and *T. ulmifolia* = *cordata* (Saelan 1878c).
5. *Tilia platyphylla*, *T. vulgaris* = × *europa* grew as cultivated in Finland, *T. ulmifolia* = *cordata* was indigenous (synonym *T. septentrionalis*), the forms of *Tilia cordata* were f. *macrophylla*, f. *rostrata* and f. *viridis* (Saelan 1880a).
6. On characters of *Larix sibirica* = *archangelica* and plantations in Finland (Saelan 1880b).
7. On the morphological differences between *L. decidua* and *L. sibirica* = *archangelica* (Saelan 1881c).
8. *Juglans cinerea*, seeds of which Kalm had collected in North America in 1750/51, grew at Eriksnäs farm in Sipoo, Nylandia (Saelan 1881f).
9. *Juglans cinerea* was collected in southwestern Finland in Tenhola, Lindö, J. regia was quite well thriving in Mustio manor, currently in the municipality of Raasepori, Nylandia (Saelan 1881g).
10. Many *Juniper communis* were damaged and died in the winter and spring of 1879–1880 from south north to the Tornio, which was probably due to cold dehydration (Saelan 1881i).

11. *Salix nigricans* = *myrsinifolia* × *phylicifolia* in the Helsinki region, Nylandia, new to Finland (Saelan 1881j).
12. *Thujopsis dolabrata*, *Cupressus* = *Chamaecyparis lawsoniana*, *Salisburya adiantifolia* = *Ginkgo biloba* wintered well at station head J. G. Niklander's garden in Myllysaari of Vyborg [Viipuri] 1879–1880 (Saelan 1881k).
13. Hj. Hjelt discovered *Betula nana* × *verrucosa* = *pendula* in Parkano (Satakunta), new to Finland (Saelan 1886h).
14. Cross-section of several trees and bushes, which have been grown at Fiskar's ironmill, sen by E. L. von Julin; *Amelanchier canadensis* = *spicata* (3.3 cm), *Carpinus betulus* (22.4 cm), *Crataegus coccinea* = *grayana* (5.7 cm), *Salix acutifolia* (14.3 cm) and *S. viminalis* (14.3 cm), E. L. von Julin, who had established an arboretum to area (Saelan 1888h).
15. Subfossil *Quercus pendunculata* = *robur* was found in Karjalohja, currently in the municipality of Lohja, Nylandia (Saelan 1892c). Kihlman (1894: 174) prepared a summary in German.
16. *Picea excelsa* = *abies* f. × *viminalis* f. *virgata* in Helsinki (Saelan 1892m).
17. *Alnus glutinosa* × *incana* at Kaisaniemi Park in Helsinki (Saelan 1892n).
18. *Salix lapponum* × *myrtilloides*, *S. myrtilloides* × *rosmarinifolia* = *repens* ssp. *rosmarinifolia* were found in Myrskylä, Nylandia, the latter as new to Finland (Saelan 1893a).
19. *Fagus sylvatica* f. *purpurea* made ripe fruits in Fagervik manour, Inkoo, Nylandia (Saelan 1896d).
20. *Alnus incana* var. *glabra* = var. *incana* in Karelia borealis (Saelan 1901a).
21. *Betula verrucosa* = *pendula* f. *bircalensis* was refound in Pirkkala, Tavastia australis (Saelan 1906b).
22. *Amelanchier canadensis* = *spicata* was found as naturalised in Kirkkonummi, Nylandia (Saelan 1907b).
23. *Alnus glutinosa* × *incana* in Savitaipale, Savonia australis (Saelan 1909b)..

Karl Emil Ingberg (1838–1895) participated in the expedition. N. I. Fellman also travelled and collected specimens there in 1863, funded by the Imperial Alexandrian University of Helsinki.

It was intended that a summary of all of the Kola Peninsula species would be published at the same time, but Saelan was unable to complete his work on the bryophytes in time and later received help from Viktor Ferdinand Brotherus (1849–1929), the world's most respected bryologist of the time. Brotherus travelled in the area in 1872 with the support of the *Society*, along with his younger brother Arvid Hjalmar (Brotherus 1873). The summaries of the lichens and vascular plants were published in 1882, and those of the mosses later. The summary of Kola mosses (*Musci Lapponiae Kolaensis*) mentions 74 species (Brotherus & Saelan 1890a,b), for which Kihlman (1893: 133) submitted a German summary.

It was especially significant to Finnish bryology that an proposal was made to the University

to acquire Professor of Botany Sextus Otto Lindberg's bryological collections for the Museum. The collection, which contained numerous type specimens, was presented carefully and organized by continent and the main collectors (Saelan et al. 1890).

Mycology

Saelan also wrote a few communications on mycology. **1.** *Elaphomyces granulatus* was found in Karjaa (Saelan 1874b); **2.** *Oecidium abietinum* in Kuhmoniemi (Saelan 1874c); **3.** *Claviceps purpurea* parasitizing *Eleocharis palustris* and *E. granulatus* in Tammisaari, the current municipality of Raasepori (Saelan 1888h); **4.** Abnormal fruits of *Prunus domestica* due to infection by *Exoascus* = *Taphrina pruni* (Saelan 1900b); **5.** *E. granulatus* in Tammisaari and elsewhere in southern Finland (Saelan 1909a).

Saelan's work on Finland's most important edible and poisonous mushrooms (Saelan & Blomstedt 1907a,b) was, when published, the best fungus guide in Finland for the layman. Typically for the time, it was published in both Finnish and Swedish (Väre 2021b). It was illustrated by artist Väinö Blomstedt (1871–1947) and written by Saelan. Saelan (1910b, 1928) also wrote about the edible berries and mushrooms of Finland in *Oma Maa*. In this work he coined the phrase "the sleeping millions" when referring to Finnish mushrooms, which was later made into a slogan by Toivo Rautavaara: "millions are rotting in the forests", which refers to the too-scant picking of mushrooms for food. *Oma Maa* is a collection of articles that present Finland and its history, including its natural history, originally published in six volumes in 1905–1912.

Insectology

Saelan wrote two communications that dealt with insectology: **1.** *Blennocampa* = *Endelomyia aethiops* eating leaves of *Prunus cerasus* at Lapinlahdi Hospital in Helsinki (Saelan 1881e); on insect damages on leaves of *Quercus robur* at Ruissalo, Turku in summer 1886 (Saelan 1888d); **3.** leaf damage in *Alnus incana* caused by *Chrysomela* = *Plagiosterna aenea* in northern Karelia (Saelan 1900a).

Lapinlahti

The main part of Saelan's professional career was as the chief physician of Lapinlahti Hospital. His choice of profession was influenced by his experience of mental illness within his own family. For nearly 40 years he was one of the central authorities in Finland on improving the treatment of mentally ill people. He was also the only doctor in the hospital for a long time, and was thus responsible for the important but time-consuming job of writing patient reports alone. This he performed with the precision that was inherent to his pursuits. For decades, Saelan was also the only authority on forensic psychiatry in Finland. Both the Senate and the medical authorities deferred to his expertise in matters of mental illness, and he served as the chairman or a member of several committees that clarified the organization of health care (Achté 1991). However, he did not abandon his botanical interests when serving in Lapinlahti. Before his appointment to the Hospital, Saelan had begun assembling the manuscript for "*Florula Lapvikiensis*" (Pakkala 1981), which he continued while working there; the notes date from 1853 to 1903, and this wax cover notebook also contains information on plants from other parts of Helsinki.

In Lapinlahti, Saelan established a magnificent park, with patients participating in the construction work (Achté 1991). A wide variety of ornamental plants were planted there, 300 taxa in all. Saelan was also a founding member of *Aktiebolag Finska Trädgårdsföreningen i Helsingfors* 1881–1911, and served on its board of directors. His library housed several books on the field of horticulture, some of them now in the library of the author of this article. Saelan also published some horticultural communications.

Obituaries

Saelan compiled several obituaries, especially when he was acting as the president of the *Societas*. **1.** Elias Lönnroth (Saelan 1882); **2.** Sextus Otto Lindberg (Saelan 1891a,b,c), of which Kihlman (1894: 176) provided a synopsis in German; **4.** Adolf Vilhelm Wegelius (Saelan 1892f); **5.** Arvid Hjalmar Brotherus (Saelan 1892g); **6.** Erail

Ferdinand Aspelin (Saelan 1892h); **7.** Fredrik Hellström (Saelan 1892i); **8.** August Emil Holmgren (Saelan 1892j); **9.** E. R. von Trautvetter (Saelan 1892k); **10.** Nils Johan Wilhelm Scheutz (Saelan 1892l); **11.** Nils Karl Nordenskiöld (Saelan 1892p); **12.** Carl Wilhelm Ignatius Sundman (Saelan 1892q); **13.** Anders Edvin Nylander (Saelan 1892t); **14.** Johan Martin Jakob af Tengström (Saelan 1892u); **15.** Frans Josef von Becker (Saelan 1892v); **16.** Johan Jakob Chydenius (Saelan 1892x); **17.** Karl Wilhelm von Nageli (Saelan 1893d); **18.** Eduard August Regel (Saelan 1893e); **19.** Hans Brynolf Hollmén (Saelan 1893f); **20.** Viktor Leonard Cajander (Saelan 1893g); **21.** Reinhold Bernhard Enwald (Saelan 1893h), and personal history of Carl von Linné (Saelan 1908).

When Elias Lönnrot (1802–1884), best known for creating the Finnish national epic, the *Kalevala*, turned 80 years old, a banquet booklet was published to mark the occasion. In his contribution to this work, Saelan (1882) wrote about Finland's first flora, written by Lönnrot.

Eponymes

Hieracium saelanii Norrl., Notis. Sällsk. Faun. et Fl. Fenn. 426 (1874).

Pilosella saelanii Norrl., Acta Soc. Fauna Fl. Fenn. 2(4): 121 (1884).

Ranunculus fallax subsp. *saelanii* Fagerstr., Acta Soc. Fauna Fl. Fenn. 79(1): 21 (1967) = *Ranunculus saelanii* (Fagerstr.) Ericsson, Ann. Bot. Fenn. 29(2): 151 (1992).

Literature

Saelan wrote several communications (Comm.), which were first presented in monthly meetings of *Societas*. He later entitled those in his bibliography (Saelan 1916a), concerning years until 1901. Those titles are used in the article.

1850's

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1882

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1886

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Saelan, Th. 1886g: Comm. *Galium tricorne* With., en ej förut hos oss anträffad barlastväxt, funnen af föredragaren på holmen Lindörn i Haikkofjärden vid Borgå. – Meddel. Soc. Fauna Fl. Fenn. 13: 228.

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1891

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