Index to Publications
of the
North East Coast Institution
of
Engineers and Shipbuilders
1884 - 1993

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SECTION 1: INTRODUCTION

History

This Index has been compiled as the final and complete record of the publications, nearly 1400 papers and 1200 biographies and obituaries, of the North East Coast Institution of Engineers and Shipbuilders (NECES). It is the final publication of the Institution and it complements the Institution's Centenary History published in 1984.

The Institution was founded in 1884 and based in Newcastle upon Tyne. It served the professional interests of its members, mainly shipbuilders, engineers, and shipowners. Members came predominantly from the North East of England but with many from other regions and nations.

The Institution, in its heyday, played a leading role in the academic, industrial and economic development of both the region and the nation. The prestigious work of its members generated both wealth, prosperity, and international renown for the region and its people.

However, the momentous and continual changes in social politics and economies have drastically changed the role and need for a regional Institution. Thus the 201st annual report and resolve, the Institution was transformed in July 1992 into the North East Coast Engineering Trust (NECET), so reestablishing its learned society role after an illustrious lifespan of 108 years.

This Index is dedicated to the former Institution members, their families, and their friends for their work which has so greatly benefited and enriched our lives.

Who Should Use the Index?

The Index is designed primarily as a bibliographic tool for the professional researcher, be he engineer, shipbuilder, librarian, or historian. Casual enquirers may also find the Index of use.

Which Publications are Included in the Index?

The following publications are indexed:

1. "Transactions of the North East Coast Institution of Engineers and Shipbuilders", v. 1, 1884, ISSN 029-280X.

The index details are: Technical papers and their associated discussions are their subjects, authors, authors' affiliations, Obituaries and biographies, Visits to Institutes, Presidential and Officers' addresses.

The following details are not indexed: Discourses of the technical papers; Minutes of Proceedings; Reports of the Council; List of Members; Constitution and Bye-Laws, Library Additions to Stock; Awards of Prizes, Student and Graduate Section Papers; not published in the Transactions; Institution Notes; Representatives of the Institution; Past President, Council, and Officers of the Institution.

How to Use the Index

The layout of the Index is a compromise between production costs and usability. Thus the text is rather compact but with many access points through the four indexes.

SECTION 2: CORRESPONDENCE INDEX. An alphabetical list of the names of organisations, usually the author's affiliation where known, but also companies.

SECTION 3: PERSONAL NAME INDEX. An alphabetical list of the names of authors, members' affiliations, biographies, and other persons.

SECTION 4: SUBJECT INDEX. An alphabetical list of the subjects of papers.

About 95% of the Institution's publications are numbered annual bound volumes of the Transactions. However, the individual papers contained therein are not numbered. Thus for the purpose of this index it has been necessary to assign to each paper, an Index Number, which is based upon the Volume Number of the Transactions in which that paper is to be found and also the first Page Number of that paper, e.g. 01/0001, which means Volume 1, page 1.

Conferences and other publications, which have been published separately to the Transactions, have been assigned a volume number which corresponds with the Transactions of the same year, e.g. 1986. Centenary Conference papers, indexed as 100/0001, published in the same year as the Transactions 100, 1984, indexed as 100/0001.

Sections 2-4 each contain detailed cross-references to assist the user, and the Index Numbers refer the user in section 1 for the full bibliographic record.

Example entry in SECTION 1: CHRONOLOGICAL INDEX:

01/0001 Transactions NECES, v. 1, 1884-85 (7) ppr., v. 188 gap, xxviii pl.
02/0001 Inaugural address by the President, (on engineering; shipbuilding; education & training), by W. Boyd (Wallsend Slipways & Engineering Co.), Read, 28 Nov. 1884. Note: Contents p. 3-20.

The titles of bound volumes and their constituent technical papers, obituaries, and similar, are "emboldened" for emphasis. Each entry has the following layout:

Index Numbers, Title of Publications, Authors and their Affiliations, Date and Place of Presentation, Title of Source Publication, Publication Date, Pagination

Thus in the second example given above:

Index Numbers = 01/0001
Title of Publication = Inaugural address by the President, (on engineering; shipbuilding; education & training)
Authors and their Affiliation = by W. Boyd (Wallsend Slipways & Engineering Co.)
Date and Place of Presentation = Read, 28 Nov. 1884, Note: (lecture in Newcastle)
Title of Source Publication = Transactions NECES, Publication Date = Dec.
Pagination = p. 3-20.

When 01/0001 = volume number 1, page number 1. The first page of the paper within the volume number 1, 28 Nov. = the same bibliographic reference as the previous entry but with different pagination, i.e. in this example Transactions NECES, v. 1, 1884-85, p. 3-20.

Voluntary numbers 1-50 were originally numbered in Roman Numerals but have been changed to "English" numbers for
SECTION 0: INTRODUCTION

clearly this index. Some page numbers were in Roman numerals and have been left unchanged, except for when they are used as part of an Index Number in this index, eg. v 12 p xxxii. -> 103:MC33, where M indicates page number changed in English.

Note that some rhymes and personal notes have been grouped together under a single Index Number, thus rhymes and personal notes may not be on the precise page number implied by the Index Number.

Key to Abbreviations

SN = Short Note = additional explanation about this term, eg. SN continues 1962 as Univ of Newcastle.
UI = Use for = use this term instead of the other term listed here, eg. Australia S P UP Wear Dock Co.
US = Use instead of = use the alternative term given, eg. Boat USE. Small craft.
BT = Broader Term = see also the broader term given, eg. Cargo ships. BT: Merchant ships.
NT = Narrower Term = see also the narrower term given, eg. Merchant ships NT: Cargo ships.
RT = Related Term = see also the related term given, eg. Merchant ships RT: Naval vessels.

ibid = the same bibliographic reference as the previous entry but with different pagination.

< = a general term,

eg Presentation USE: especially subjects, eg Corruption.

p = page

dis = discussion,

pl = plate, usually a fold-out diagram or photograph

pl = place

1962 = volume, for each volume numbers held, where 1-108 = continuous as nearly continuous run. Line = substantial but incomplete run. Note that holdings of Conference proceedings are much less common and have not been checked.

North-East:


North-West:

Macclesfield Marine Museum, Liverpool, 61-98; University of Liverpool, 75-108.

London:


South-West:


Scotland:


UK:

British Library Document Supply Centre, Boston Spa, Wetherby (for Inter-Library Loans), 1-108.
SECTION I: CHRONOLOGICAL INDEX

How to use the Chronological Index:

A list of publications, arranged in chronological order of publication dates, and then by page number, or paper number within each publication.

e.g. 001:0000; 001:0001; 001:0021; ...
e.g. 100A:0011; 100C:0022; 100Y:0002; 101:0000; ...

Entries in the form:

- Title of publication (author)
- Date of publication
- Page numbers
- Notes

Find your publications in this Section 1: Chronological Index, or find them by using the three indexes in the following Sections 2: Corporate Name Index; 3: Personal Name Index; 4: Subject Index.

Example:

D - discussion page numbered D in the text, usually following the main text e.g. 048:0106.

M - pages numbered M by the Compiler, to indicate pages numbered using Roman Numerals by the Institution, usually preceding the main text e.g. 200A:0025.

S - pages numbered S or SI by the Institution on T - pages numbered T by the Compiler, to indicate an appendix following the main text.

X, Y - conference or other publications authored by the Compiler, published in the same year, but separately from a particular volume of Transactions, e.g. 048:0000.

Publications:

001:0000 Transactions NECTES, v 1, 1884-5, [7]; 184 pp. pl. 1
001:0001 Inaugural address by the President (on engineering; shipbuilding; education & training), by W. Rycot. (Woolwich School of Navigation & Engineering Co.), 27th Nov. 1884, Nlec. Ind., p 1-30
001:0021 On the speed trials of steam ships. By W.H. Whir (Inaugural Address by the President), 29th Dec. 1884, Nlec. Ind., p 35-40
001:0025 On triple expansion steam reciprocating engines, by W. W. Tow (Inaugural Address by the President), 1 Apr. 1885, Nlec. Ind., p 117-129 & pl III-IV opp.

002:0000 Transactions NECTES, v 2, 1885-6, [14]; 184 pp. pl. 1
002:0001 Inaugural address by the President (on construction); production; seed; strength, ships, by W. S. Ford (Woolwich School of Navigation & Engineering Co.), 14 Oct. 1885, Nlec. Ind., p 157-187 & pl III-IV opp.
002:0025 On the manufacture of large forgings for marine purposes (crankshafts), by H. Cameron (Inaugural Address by the President), 14 Nov. 1885, Nlec. Ind., p 35-56 & pl III-IV opp.

002:0041 On the application of hydraulic pressure to the driving of machines (instituting), by A.H. Beccell (Inaugural Address by the President), 14 Dec. 1886, Nlec. Ind., p 116-145 & pl III-IV opp.

002:0053 Transactions NECTES, v 3, 1886-7, [14]; 184 pp. pl. 1
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
002:0056 On the principle of work in relation to the strength of structures and the safety of the accepted energy of the strength of hulls at the mouth of the river. By T. lodge (Inaugural Address by the President), 9 Feb. 1887, Nlec. Ind., p 7-37, pl I-IV opp.
SECTION 1: CHRONOLOGICAL INDEX.


033-037) Description of the improvements of the River Tyne. By P.J. Thomson; Cyma Improvement Commissioners. Summer Mtg., 28 Jul 1887, Ntc. Announced, ibid. p 293. In Trans INA, v 29, 1888, p 122-135, pl xvi-xvii opp p 410. [See also previous 2 pts, same Index No 3]


034-039) Inaugural address by the president [on triple expansion steam reciprocating engines; conversion; shipbuilding]. By W. T. Duckproof (William Duckproof & Son). Read, 19 Oct 1887, Ntc. ibid. p 13-16.


034-044) Improvements in the construction of iron and steel vessels. By W. G. Proud (IR. & W. Hanson, Leslie & Co.). Read, 1 Jan 1888, Ntc. ibid. p 151-203, incl. pl xxv-xxvi.

034-045) On the results of some experiments on an improved bulb type propeller. By J. Paterson (Judd & Sons). Read, 8 Feb 1888, Ntc. ibid. p 204-242, pl xxvii.


034-051) Memoir. G. H. Sharpe, 1888. ibid. pl xxv-xxx opp p 1 [page for numerous M].


034-059) Transactions NIECES, v 6, 1889-90, 16, pp. 1-17, pl xxv.


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338 p., xxv pl.


01/10/06: NECIES Transactions. v. 13, 1894-95. 774 pp., xxvi, 337 p.


01/15/04: On the application of the electric arc to machines and boiler repairs, etc. By C. Foster (Specifier Newcomen Works). Read, 12 Feb 1895. Nave. Ibid. p. 185-193. 205-208. 275-312. pl. xxvi opp p. 183.


SECTION I: CHRONOLOGICAL INDEX.


SECTION 1: CHRONOLOGICAL INDEX.


1890-1890. Transactions NECIES. v 19, 1902-1903. (2) p. 300, 305, 311.


SECTION 1: CHRONOLOGICAL INDEX.


025:01:15 Report of the work of the Consultative Committee appointed to confer with the Marine Department of the Board of Trade, of the year ended 5th March, 1907 [on ship regulations]. By [author not known]. Ibd, p 39; 156-356.


026:00:10 Notes on the trials and performances of the six-inch, fitted with a combination of [screw], reciprocating and
SECTION 1: CHRONOLOGICAL INDEX.


1935. Report of the work of the consultative commission appointed to confer with the Marine Department of the Board of Trade, of the year ended 31st March, 1930, on the regulations. By [author not known]. Ibid. p. 363-370.


1942. Report of the work of the consultative commission, appointed to confer with the Marine Department of the Board of Trade of the year ended 31st March, 1941, on ship regulations. By [author not known]. Submitted c1941. Ibid. p. 305.


1955. Report for the year ended 31st March, 1952, of the work of the consultative committee appointed to confer with the Marine Department of the Board of Trade on the regulations. By [author not known]. Ibid. p. 395-422.


INDEX TO SOCIETY'S PUBLICATIONS 1865-1965. 1
SECTION I: CHRONOLOGICAL INDEX.


239-2447 Report for the year ended 5th March 1913, of the work of the Consultant Committee appointed to confer with Marine Departments of the Board of Trade (on regulations). By authors not known. Ibid, p. 267–273.


SECTION 1: CHRONOLOGICAL INDEX.


052-011 List of recent engineering articles of interest. 1 Aug -1 Nov 1915. Iind. p. 1- various pages opp p. 349 (pages not numbered 1, and are blank).


SECTION I: CHRONOLOGICAL INDEX.

037.0152 The reaction between shipbuilding: production, price, and the freight market. By M. Ballard (Swan, Hunter, & Wigham Richardson Co Ltd). Read 7 Dec 1920, Nce. Ind., p 152 181, p ili opp p 564.


037.0387 Note on some proposals made during the war for protecting merchant ships against submarines (armored bulges). By E.H. Fenny of Green (Sir G.W. Aspinwall, Whitworth & Co Ltd). Read 3 Dec 1921, Nce. Ind., p 151-172.


037.0425 Standardization (in engineering design) the fundamental importance to the prosperity of our trade. By G. Le Vasseur (British Engineering Standard Association). Read 24 Mar 1922, Nce. Ind., p 477 546.

037.0452 Controversy; with special reference to the freedom metals and the determination of ships. By A. Pickford (Lloyd's Register of Shipping). Read 28 Apr 1922, Nce. Ind., p 509-546, pl vii opp p 610.


039.0157 Some factors affecting the utilization of heavy oil in internal-combustion engines [diesel engines]. By L. Morin (addition not known). Read 1 Dec 1922, Nce. Ind., p 179-200.


039.0304 Dordrecht opposed-piston marine oil engine. By Wil van Bochum & Sons Ltd. Read 12 & 26 Jan 1923, Nce. Ind., p 99-151, pl vi opp p 599. [see also 039.0301]

039.0157 Neptunia marine nil engine. By Paelo, I. & Wigg, Sam Richardson Ltd. Read 12 & 26 Jan 1923. Nce. Ind., p 207-250, 17 pts in 699. [see also 039.0305]

039.0253 The Scott-Stil marine oil engine. By Scotts' Shipbuilding & Engineering Co Ltd. Read, 12 & 26 Jan 1923, Nce. Ind., p 318-320, pl vi opp p 699, see also 039.0301.


INDEX TO VOLUME 39, 1922-1923.
SECTION I: CHRONOLOGICAL INDEX.

1924
SECTION 1: CHRONOLOGICAL INDEX.

04:20:00:20 NECIES Transactions, v 42, 1925-1926 [ii], vix, 445 p.
SECTION 1: CHRONOLOGICAL INDEX.


043-0307 The application of high pressures in the [triple expansion] reciprocating marine steam engine [inc. tug (Strom)]. By S.G. Visher (affiliation not known). [Read. 17 Nov 1927, Ncle]. Ibid. p. 115-126.


043-0312 The measurement of power in [ship ( subconscious)] with all [engines]. By L.S. Ramon (affiliation not known). [Read. 4 Mar 1928, Ncle]. Ibid. p. 385-334.


SECTION 1: CHRONOLOGICAL INDEX.


066.0321 Is a sea experience essential in order to become a good marine engineer? [In education & training]. Introduced by E. Wilson (Senator for known). Necle, Ibid, p. 435.
066.0382 Summer meeting in Holland, held jointly with the Fenns. 21-28 Jun 1931. Ibid, p. 398-421. [See 2 Aug 1931 066.0381-0384.]

SECTION 1. CHRONOLOGICAL INDEX.

[Pages containing specific dates and references to various events and inventions in the field of shipbuilding and marine engineering are listed, with brief descriptions of each entry.]

[Continued on subsequent pages with more chronological entries related to shipbuilding and marine technology.]
SECTION 1: CHRONOLOGICAL INDEX.


059.0159 Oscillatory: Alfred Lindsay Dorsen, n 270-1943.


060.05141 Conferences of Honorary Fellowship on Mr. J. Foster King, C.H.E., Held, 7 Dec 1943, Glasgow ibid, p. 141-142.

26. INDEX TO NECES PUBLICATIONS 1934-1945
SECTION 1: CHRONOLOGICAL INDEX.


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SECTION I: CHRONOLOGICAL INDEX.


072:0715.4 The Doxford (2-stroke) opposed piston diesel engine: progress and development (gear, liner fuels & supercharging). By A. Storry (Doxford & Sons Ltd). Read, 23 May 1956, Ibid. p. 327-360, D73: D76.


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1960

1961


1961


1961

1962


1962


1070: 25d An evolution in ship control (automation, gyrocompasses, ministorey, navigation). By H.E. Paul (J.S.C. Brown

1963


1070: 25h An evolution in ship control (automation, gyrocompasses, ministorey, navigation). By H.E. Paul (J.S.C. Brown
SECTION I: CHRONOLOGICAL INDEX.

[New], ibid, p. 15-20.
08:0351 Further notes on strength of tankers [incl. high tensile steel, conversion]. By H. Murray (Chesapeake Register of Shipping). Read, 8 Mar 1965. [New], ibid, p. 251-260, D7-32. 
08:0351 The deterioration of materials by the joint action of corrosive and mechanical factors. By J.P. Chilton (University of New Zealand). Read, 11 Jan 1965. [New], ibid, p. 281-304, D7-33.

08:0351 NACPS Transactions. v 82, 1965-66. [11], plates, iv, 328, D1C0 p.
SECTION 1: CHRONOLOGICAL INDEX.


032-0009 NECSIS Transactions, 64, 1967-68. 121 p.


032-0012 Management services as an aid to increased productivity in shipbuilding (Firth Brown Shipbuilding & Engineering Ltd, Firth Brown (Glasgow) Ltd). By R.B. Farkas (Firth Brown (Glasgow) Ltd). Read. 25 Nov. 1968. [Nel]. Ibid. p. 42-55, D5-D12.


032-0012 The challenge of our marine environment (ships, shipbuilding, offshore engineering, research). By R. Be

032-0012
SECTION I: CHRONOLOGICAL INDEX.
SECTION II: CHRONOLOGICAL INDEX.


D1-40 100 101 Research at NPL on marine traffic systems, tankers, navigation, safety, audio, (NPL) in Dover (Nautical) Lab. Read 16 Apr 1973, [Nel], Ibid, 1972-73, p 131-139, D2-D34.


42.

42.
SECTION 1: CHRONOLOGICAL INDEX.


090:04010 NECIES Transactions, v 91, 1974-75, (12) pp., iii, 214 & T50 p


090:04010 Scascape '76: Developments in shipboard outfitting (bar and work). 1 Apr 1976; Univ. of Newcastle upon Tyne. [Proceedings], Organized by NECIES Inc. Sect. Published by NECIES, 6 pp., 61 pages.

INDEX TO NECIES PUBLICATIONS (156-160).
SECTION 1: CHRONOLOGICAL INDEX


02-0000 Marine safety and ship design conference: 1976. Newcastle. Organized by National Institute with NCE. Published by NCE. [Paper not included in this index].


02-0020 Some thoughts on ship design, innovation and support research. By G. K. Smith (NCEA) Backunler Lect. 46 15 Feb 1978. [NCE], Ibd. announcement only, p 236. [Paper not published].


SECTION 1: CHRONOLOGICAL INDEX.


120-0215 Personal notes: Alta F. Harris, Peter Marian, Ibb, p 130-157, 121-123.

130-0225 Alternative mechanically propelled fleets (principal areas, for the inland waters, of a developing country) (Bangladesh). By N. Bar (Bangladesh Institute of Transport & Development). Read, 5 Nov 1984, [Nrel]. Ibid, p 135-179, 135-177.


SECTION 1: CHRONOLOGICAL INDEX.


102-0952 The role of the port in the maritime industries. By W. Smith (Britain Marine Consultants, in association with Fairways International). Blackaddie Lect. 20, 17 Feb 1985, [Necel], Ind. p. 73-78.

102-0955 Personal notes: Ian Lynam, [Ind. p. 85-86.


102-0959 Personal notes: Arthur Storey, [Ind. p. 102-102.]


102-0959 Personal notes: R. Steward, [Ind. p. 139-140.


102-0955 Personal notes: Michael N. Parker, John Burton Davies, Senior Executive Secretary: Mrs Atmney Wilson, [Ind. p. 208-209.


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INDEX TO NCEES PUBLICATIONS 1986-89.
  002640  [Abstract] [PDF]


105 0026 Marine engineering and the North Sea; part 1: an historical symposium. 26 Nov 1988; Museum of Science & Engineering, Newcastle upon Tyne. Improved by NIECES. Ibid. p. 59-77. [see following pps. 105 0033 105 0052 & previous pps. 105 0019]


105 0029 Cables to computers, lampwick to lasers. By R.O. Thompson (Institute of Marine Engineers; formerly of Crest Howden & Co Ltd). Symp. 26 Nov 1988, [N.I.D.]. Summary. Ibid. p. 64-67. [see also next pps. same index No.]


105 0032 Personal note: Frederick Brian Topham. Ibid. p. 72-73.


  003940  [Abstract] [PDF]


105 0045 The Syncrelif system for dry docking ships. By: J.B. Salties; D.L. Reardon; F.V. Voge (NIECES); Ibid. 16 Oct 1989, [N.I.D.]. Ibid. p. 49-55.


  005440  [Abstract] [PDF]


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108.0040 NGOE & NGCSE Transactions, 148, 1992, 1 Apr., 2.


108.0065 An essay on design, etc, still sought, By R. Vaguean (Swan Hunter Shipbuilders Ltd, Andrew Long Memorial Lect., £61, 16 May 1992. ibid., p. 65-68.

108.0072 Obituary: John Frank Batten, c.1912-1992. ibid., p. 70


SECTION 2: CORPORATE NAME INDEX.
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RNAI, SN: Royal National Lifeboat Institution 375 0473.
Rolls Royce & Co Ltd. 06 20 47.
Roper Management Ltd. BT: Roper 088 0039.
Roper Shipping Ltd. SN, 1888: BT: Roper 100 0147.
Royal Aircraft Establishment, SN: RAE. 017 0101.
Royal Corps of Naval Constructors, USE: RCNC.
Royal Institution of Naval Architects, USE: RINA.
Royal Mail Ltd. 06 20 0205.
Royal National Lifeboat Institution, USE: RNLI.
Royal Naval College Greenwich, BT: Royal Navy. 09 03 0117.
Royal Naval Scientific Service, BT: Royal Navy 08 00 0196.
Royal Navy, BT: Great Britain. NT: Royal Naval Col.
Greenwich, NT: Royal Naval Scientific Service. 01 16 03 32.
03 08 0095; 02 02 0031; 02 06 0351; 03 11 00 23; 03 04 0539; 04 22 0226.
04 09 0029; 06 02 0104; 06 08 0143; 06 09 0367; 07 22 002; 08 2 0017;
02 02 0506; 03 07 0037; 09 04 0418; 10 03 001; 09 2 02 23.
Royal Society, USE (London). 05 03 0053.
Kunstler, Walter, SN: after Walter Kunzma. 25 07 007.
08 07 0299; 08 07 0307; 06 08 0109.
Russia, BT: Counties. USE: RS.
Rutherford Coll New, SN: corps at Newcastle upon Tyne Poly.
KT: Newcastle upon Tyne Poly 0 7 007.

Sabbet corporate names, USE: S: corporate names.
Saint Andrews Iron Works. 03 02 0027.
School of Science & Art, 01 04 049, 01 06 043.
Science & Engineering Research Council, USE: SERC.
Scientific & Technical Services Ltd. 05 48 97.
Scott Lithgow Ltd. SN: 1857 formed from merger of Scott's Shipbuilding & Engineering Co. Ltd. & Lithgow Ltd. 1857 part of Privy Shipsbuilders Ltd. BT: Lithgow 09 03 0090, 09 04 007.
Scott, Ernest & Mountain, SN after Ernest Scott, A (? 1913). Mount-

an, BT: Mountain. 02 14 1213, 02 03 23 29.
Scott, Ernest. 00 07 2 196.
Scott's Shipbuilding & Engng Co Ltd SN after John Scott, A.
Scott. 1721-1796, 1724-1795, 01 19 01 19. 02 03 40 00 00.
Greenock Foundry Co Ltd. 09 05 0066; 09 05 0072.
Scott, J. R. McLean Ltd. BT: Greenock Foundry Co Ltd. 09 05 0066, 06 01 043.
Seafish Ltd. 08 06 0057.
SEF: USE: Shipbuilding Employers Federation.
SERC, SN: Source and Engineering Research Council.
Great Britain. 06 01 055, 10 04 101.
Sheffield University, USE: Univ of Sheffield.
Shell Plastics Lab (Nettleshead), BT: Netherlands. 01 07 027.
Shell Research Ltd. 07 05 0277.
Shell Tanker Co Ltd. 02 04 00 09; 01 03 037, 01 04 031, 01 04 041.
Ship & Offshore Co Ltd. 07 3 0 09.
Shipbuilding Conference, SN: 1934-?, 05 02 0101.
Shipbuilding Employers Federation. SN: SFF 06 20 295.
Shipbuilding Industry Training Board, SN: SITB 09 05 306.
SITB USE Shiplbng, Industry Training Board.
SN taken over by Swan Hunter, 1969. 02 05 0119. Smith's. 01 05 0143, 04 05 0406; 06 01 0199; 06 05 0147; 09 05 0221; 07 02 0232, 03 07 0093, 110 00 007.
South Machine Dynamics Ltd. 10 02 025.
South Pacific Research Institute. 07 75 9379.
South Africa, BT: County. NT: Kimberley Observatory.
South Shields Marine & Tech Coll. 03 2 053.
Spencer Newburn Steel Works (Newb), 02 01 07; 01 11 0165.
SSPA (Sweden), USE: various similar names. BT: Sweden.
07 02 0275; 06 07 0123; 06 07 0085.
St <corporate names, USE: St: corporate names.
Stein, W H, & Iron Co. C05 0231.
Stephenson Clarke Shipping Ltd. BT: Stephenson. 01 10 0306.
Stoer Manganese Marine Ltd (Hinckley), BT: Manganese.
Swede, 08 3 0004; 06 05 0101; 06 09 0075; 06 07 0399-100 0004.
Stock (Netherlands), BT: Netherlands. BT: Van Koningsvoort Group (including) (Netherlands. 01 07 0327.
Stromness Ship Ltd (Norway), BT: Norway. 09 03 0074.
Stout & Gurney Engineering Co (London), 06 01 0017, 01 10 0375.
Sunderland Shipwrights Ltd (Switzerland), BT: Switzerland. 04 01 021.
05 02 0027; 08 02 2533; 07 25 0043; 08 20 0189; 09 00 001; 09 04 0161; 10 06 0137.
Sumitomo Heavy Industries Ltd (Japan), BT: Swam 09 06 0167.
Sunderland Corporation. 01 01 0053.
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Westgarth, SN after T. J. Westgarth. NT: Furness, Sir C, West
garth & Ltd (Mid) NT: Richardson, Westgarth & Co Ltd.
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Whealsacre Systems & Controls Ltd. 163:0072; 167:0149.
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Lid.
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Surname, Initials, Date of Birth, Date of Death, (Personal Title), (organization).

Find your names, then, by using the Index Numbers given, search for the full biographical reference in Section 1 Chronological Index. Note that the Index Numbers given for obituaries and biographies may not correspond exactly to the page number where the article is printed, though the exact pagination is given in the Chronological Index. This is because several have been grouped together under a single Index Number.

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Architects, USE: Hull form.
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Art (artistic). RT: Design.
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Art & sculpture. RT: Design.
Artificial intelligence, USE: Computers.
Astrology, (i.e., so-called astrological practices). USE: Folklore.
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Axial induction, RT: Wind turbines.
Axial booster, RT: Turbines.
Axial booster, RT: Wind turbines.
Axial compressor, RT: Turbines.
Axial compressor, RT: Wind turbines.
Axial compressor, RT: Wind turbines.
Axial compressor, RT: Wind turbines.
Axial exhaust, RT: Turbines.
Axial exhaust, RT: Wind turbines.
Axial extruder, RT: Turbines.
Axial extruder, RT: Wind turbines.
Axial fan, RT: Turbines.
Axial fan, RT: Wind turbines.
Axial flow, RT: Fans.
Axial flow, RT: Propellers.
Axial flow, RT: Turbines.
Axial flow, RT: Wind turbines.
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SECTION 4: SUBJECT INDEX.

Civilian NCOEM, USA: NCFERS Council.
Countries: BT: Geographic regions: NT: Bangladesh, NT: Belgium.
        NT: Canada, NT: Cuba, NT: Developing countries, NT: Egypt.
        NT: France, NT: Foreign countries, NT: Germany NT.
        NT: Great Britain NT: India, NT: Italy, NT: Japan NT.
        NT: Netherlands NT: Russia. CT: Corporation: Index RT: Government.
        NT: International relations.
Country houses. USE: Developing countries. USE: Ianl and
        waterways vessels.
CP Propellers. USE: Propellers.
The (crafts). USE: Ships. USE: Small craft.
Craftsmanship: education & training,
         USE: Education & training.
CT: Percussion.
Crane ships. USE: Heavy lift ships.
Cranes. RT: Lifting machinery. RT: Puma handling equipment.
RT: Heavy lift ships. + caption 023:0047; + engineering
        workshop & shipyards 023:0099; + ships 057:0161; + heavy
        deck cranes stored ships 060:0371; + shipyards 078:0233;
        + heavy crane ships 093:0275; + shipbuilding history 103:0372;
        + crane cables lifts ships 260:0695.
Crane engines: steam reciprocating engines. USE: Steam reciprocating engines.
Crankcases: diesel engines. USE: Diesel engines.
Crankcases, diesel engines. USE: Diesel engine.
Crankshafts. RT: Shafting. + shafting rotor engines. long &
        medium shafts 091:0337; + water pump engine. + crankshaft:
        straight shafts 091:0312; + steam reciprocating engine. square &
        casting shafts 091:0303; + steam reciprocating engine. square &
        casting shafts 091:0303; + Mitchell crankcase diesel engines.
        shafts 043:0045; + oil engines marine inc 058:0100.
Creep. USE: Mechanical. USE: Structural strength.
Passengcrs + no specific pp.
Crude oil. NT: Oil refining. USE: Oil.
Cruise ships. USE: Passenger ships. + no specific pp.
Cruiser sterns. USE: Stems.
Cruisers. USE: Wardens.
Culb (country). BT: Countries. + ship design & construction.
        RC: Cylinders. RC: Structures. + tanks + steel truss bridge
        steel girders. 067:0933.
Cylinders engines. USE: Combustion chambers. USE: Engines.
        USE: Diesel engines. USE: Steam reciprocating engines.

Damage. USE: Corrosion. USE: Maintenance. USE: Reliability.
USE: Remotely.
Dampening, USE: Stabilizing devices. USE: Vibration.
Data processing. USE: Data analysis. USE: Analysis. RT: Computer.
        RT: Mathematics. + model tux adaptation ship 059:0221; +
        model tux propulsion 040:0439; + ship performance
        computer ship 043:0063; + software 043:0177; + performance
        ships 053:0124; + cruise, cruise performance ship conference.
Dazzle painting. USE: Coating. USE: camouflage.
DC motors. USE: Superconductors.
Deck auxiliary machinery. USE: Auxiliary machinery. RC: Decks.
Deck covering. USE: Outfitting. RC: Decks.
Dedicated. USE: Superconductors.
Decks. RT: Hull. RT: Accessory equipment. + warships + sub-
        division, merchant ships. submarine vessels 058:0309; +
        warships + submarine 058:0309; + maternal material
        aching warships 076:0281; + submarine. passenger ships
        078:0511; + gardner: structural strength. HVAC: passenger
        ships 078:0901.
 Decommissioning. USE: Scraping.
Defence. general. NT: Warfare military. USE: Naval
        vessels. USE: Weapons. USE: War.
Defence, anti-submarine. USE: Submarines.
Demolition. USE: Scraping.
Depression, economic. USE: Depression.
Derelicts, USE: Cures.
Design: general. NT: Engineering design. Too many ps to list. Fears
        space under narrow limits, especially Ship Design and
        other specific structures. RT: Engineering. RT: Structures.
        NT: Analysis. NT: Drawing. NT: Integrated systems.
        NT: Modelling. NT: New innovations. NT: Obscure. NT:
        Optimisation. NT: Product development. NT: Ship design.
        NT: Simulation. NT: Standardisation. NT: Specific structures
        to name a few. RT: Propellers. RT: Art &
        aesthetics. RT: Research. + standardisation: naval economics
        034:0372; + experimental methods. research 066:0289; +
        engineering 076:0199; - & research: mechanical engineering
        US: Lockheed 075:0281; - & research: computer: Lockheed
        USA: 104:0183; - USA: Langley 104:0183.
Design for production, USE: Design. USE: Ship engines USE:
        Production. USE: Ship production.
Design for repair, USE: Design. USE: Ship design. USE:
        Repairs. USE: Ship repair.
Destroyers. USE: Wardens.
Deterioration, USE: Common USE. USE: Metalurgy.
Deterioration. USE: Common USE. USE: Metalurgy.
Developing countries. RC: Countries. NT: Bangladesh.
        NT: Indian waterways vessels. Bangladesh 100:0153.
Development. USE: Design. USE: History. USE: Research.
        USE: specific subject. USE: Diesel engines.
Diesel electric engines. USE: Diesel engine USE: Electric propulsion.
Diesel engines propelled ships. USE: Diesel engines. USE:
        Monitors. USE: Propulsion machinery.
Diesel engines. BT: Oil engines. RT: Combustion cycle.
        RT: Steam turbine. + vs. other engine types ship 028:0249;
        + ship 028:0249; + ship 028:0249; - & other internal combustion
        engines + thermal efficiency 015:0417; + engines 056:0156; + oil
        internal combustion ship 053:0137; + engine 053:0137; +
        compression air fuel mixture + combustion ship 018:0127;
        + design ships 013:0413; + double acting 2-stroke diesel
        ships 019:0089; - fuel盅, heavy 029:0142; - fuel oil. ships
        049:0190; - variable speed diesel ships 104:0181; - double acting
        ships 049:0190; - compression to steam reciprocating engines.
        + steam seawater 001:0315; - scavenging 001:0315; - forcing
        & casting 042:0121; - waterjet propulsion ships 044:0121; -
        marine diesel, ships 044:0247; - reciprocating ships
        044:0197; - double acting: crankshocks ships 047:0229; - vs
        steam reciprocating, water used: cargo ships 049:0205; - vs
        steam engines, new techniques: marine economics ship
        051:0229; + 034:1147; - & gas engines turbocharged. used
        system ship 061:0441; - ships 061:0533; - Pelton: design
        scavenging 066:0371; - Waterpower Lage 2-stroke super-
        charging 066:0177; - & gas turbines marine gas power plants
        Lima, ships 066:0368; - Detroit 066:0368; - crankcase safety
        ships 066:0283; - scrapers 066:0283; - Westvaco. USA: Langley
        075:0109; - machinery: heavy oil fuel
        ships 059:0127; - shafting alignment 059:0534; -
        014:0437; - propeller & cylinders: reliability: ships 014:0353;
        + Detroit 2 strokes: suppression: supercharging: boiler
        fuel 072:0227; + cargo ship 072:0227; - naval vessel: propulsion
        machinery: Panama, ships 071:0057; - Stork: Waterpower
        supercharging: Bergendoff propulsion ships 071:0120; -
        014:0170; - cast iron: marine engineering: submarines
        015:0128; - cast iron: metalurgy: ships 072:0111; - marine
        propulsion: Lima, ships 078:0117; - Gvertiser ships
        015:0581; - large 2-stroke turbo & superchargers 079:0124,
SECTION 4: SUBJECT INDEX

Great Lakes vessels. USE: Island waterways vessels. USE: North America.

Grillages; ships; BT. Structural design; RT. Structural members. - Structural strength: weight saving 0.70.0145. - Tankers; longitudinal strength 0.70.0137.

Guns; USE: Weapons.

Guns, electric; USE: Weapons.

Gunboats; USE: Gunboats.

Gyrocompasses; USE: Compasses.

Habitability; USE: Accommodation design.

Hammers; chipping; USE: Welding.

Handling; USE: Cargo handling equipment.

Harness; USE: Hitches.

Harvest; USE: Farming.

Hatch covers; USE: Cargo handling equipment.

Heat balance & diagrams; USE: Thermodynamics.

Heat engines; USE: Engines.

Heat exchangers; USE: Auxiliary equipment.

Heat treatment; USE: Metalworking.

Heat transfer; USE: Fluids.

Heave compensations; USE: Ship design.

Helmet; USE: Aircrew.

Helicopters; USE: Aircraft.

Helicopters; USE: Aircraft.

High powered ships; USE: Power plants.

High pressure equipment & machinery; USE: Pressure.


High speed sailing yachts; USE: Yachts.

High speed watercraft; USE: Hydrofoil vessels.
SECTION 4: SUBJECT INDEX

High speed ships: cargo ships. BT. Stow. RT. High powered ships. RT. High speed craft. LSE. USE. Small craft. USE. High tensile steel. USE. Steel. USE.


High speed craft. USE. High speed craft. USE. Small craft. USE.

High tensile steel. USE. Steel. USE.


High speed ships: cargo ships. BT. Stow. RT. High powered ships. RT. High speed craft. LSE. USE. Small craft. USE.
SECTION 4: SUBJECT INDEX.

Hydrofoil vessels. BT: High speed craft; slip design 052.0166;
- yacht, sailing: Mayfly 096.0005.

Hydrofoils. USE: Hydrofoils, VT: Aircraft.

Hydrofoil designs. USE: Aeronautics.

Hydroplane vessels. BT: High speed craft; Presidential Adm 027.0017.

Hydrofoil. USE: Aircraft; design 029.9035.

Hydrofoil propulsion. USE: Engineering.

Hydrofoil propulsion. USE: Engineering.

Hydrofoils. USE: Aircraft; design 029.9035.

Hydrofoils. USE: Aircraft; design 029.9035.

Hydrofoil propulsion. USE: Engineering.

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Hydrofoil propulsion. USE: Engineering.
SECTION 4: SURFACTANT INDEX.


International <subject>. USE: exhibits, except for the above.

Investments: design and ship design, LSE. New locations.

Investment: U.S. locations.


Iron ore carriers. USE: Ore carriers.


IT, SN = Information technology. USE: Computers.

Halt country. RT: Countries RT: Europe. -- ship production, automation 0142013.

Jackup platforms. USE: Offshore drilling rigs.


Luggage. USE: Offshore drilling rigs.


Jet ships. USE: Maneuvering devices.


Jubilee meeting. NCECS: USE: Meeting NCECS.

Junboising. ships. USE: Concerts.

Kermit (wave energy device). USE: Wave energy devices.

Kaplan turbines. USE: Turbines.

Keel. LSE: Buoy keel.

King George V (Clyde river steamers). USE: Island shallow-draft vessels.

Kort marine. USE: Propellers, drives.

La Mort bullers. USE: Bluffs.

Laboratories. USE: Research.


-- 1 1332 345 F029: -- 3 2973 059 0025: -- 3 3134 351 0027.

-- 4 1557 222 0025: -- 8 9724 053 0016: = 0 3937 324 0035.

-- 7 9124 569 0013: -- 9 9628 374 0012: -- 9 9886 324 0091.


Marine transport. USE: Shipping. USE: Ships.

Marine subjects. USE: subjects except for those listed above.

Market forecasting. Building RT. Market trends RT.

Marine transport. USE: Shipping. USE: Ships.

Marine subjects. USE: subjects except for those listed above.

Market forecasting. Building RT. Market trends RT.

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Market forecasting. Building RT. Market trends RT.

Marine transport. USE: Shipping. USE: Ships.

Marine subjects. USE: subjects except for those listed above.

Market forecasting. Building RT. Market trends RT.
SECTION 4: SUBJECT INDEX

Motive power. USE: Power generation. USA: Propulsion machinery
Motor yachts. USE: Yachts.


Motors, electric. USE: Electrical power generation.


Modeling. BT: Shipbuilding. - ships 058.0138
Mulberry Harbour (floating harbour). USE: Concrete. USE: Paste.

Multiple expansion engines. USE: Steam, reciprocating engines.

Munitions. USE: Weapons.


National organisations. BT: Organizations. NT: names or specific organisations in Corporate Name Index.

Natsahima (research ship). USE: Research Vessels. USE: Support ships.

Natural gas. USE: Gas.


Naval architects: education & training. USE: Education & training.


Naval engineers. BT: Engineers. BT: Naval architecture.


Nuclear expression. USE: Structural analysis.

Nurseries. BT: Nuclear vessels. BT: Organisations.


N.DT. SN: Non destructive testing. USE: Testing.

N.E. England. USE: North East. ENGLAND.

N.C. (conference). USE: Conferences. N.C.E.


Nechtschist constitution and bye-laws. SN: not indexed, but published annually in Transactions.

Niederlassungen. USE: Offices.

Niederlassung. SN: not indexed, but published annually in Transactions.

Niederlassungen. USE: Offices.

Niederlassungen. USE: Offices.

Niederlassungen. USE: Offices.

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Niederlassung. USE: Offices.

Oil platforms & rigs, offshore. USE. Offshore rigging.

Oil tanks. USE: Tankers.


Offshore: oilfields. USE: Offshore engineering USP 001 RT.

Geographic regions


Oil-water emissions: fuel. USE: Fuel, oil, manifolds.

Power stacks: USE: Power stacks.


Operations: naval vessels. USE: Naval vessels.

Passenger accommodation. USE. Accommodation design. USE. Passenger.

Passenger cargo ships. BT: Merchant ships. AT: Cargo ships.

Passenger ships. BT: Merchant ships. AT: Passenger AT.

Passenger spaces. USE. Accommodation.


Passenger vehicles. USE. Workshops.

Performance: general. BT: Operations. USE. Specific performance data.

Performance: boilers. USE. Boilers.

Performance: propellers. USE. Propellers.

Performance: ships. USE. Propellers.

Passenger. USE. Propellers.

Passenger vehicles. USE. Workshops.

Passenger spaces. USE. Accommodation.

Passenger accommodation. USE. Accommodation design. USE. Passenger.

Passenger cargo ships. BT: Merchant ships. AT: Cargo ships.

Passenger spaces. BT: Merchant ships. AT: Passenger AT.


Passenger vehicles. USE. Workshops.

Performance: general. BT: Operations. USE. Specific performance data.

Performance: boilers. USE. Boilers.

Performance: propellers. USE. Propellers.

Performance: ships. USE. Propellers.

Passenger. USE. Propellers.

Passenger vehicles. USE. Workshops.

Passenger spaces. USE. Accommodation.

Passenger accommodation. USE. Accommodation design. USE. Passenger.

Passenger cargo ships. BT: Merchant ships. AT: Cargo ships.

Passenger spaces. BT: Merchant ships. AT: Passenger AT.


Passenger vehicles. USE. Workshops.

Performance: general. BT: Operations. USE. Specific performance data.

Performance: boilers. USE. Boilers.

Performance: propellers. USE. Propellers.

Performance: ships. USE. Propellers.

Passenger. USE. Propellers.
SECTION 4: SUBJECT INDEX.

Plastics, USE: Combustion chambers, USE: Diesel engines, USE: Jauuma, combustion eng. USE: Steam recompressing engines.
Pitch: propeller blades, USE: Propellers.
Pitachi: ship notations, USE: Motions.
Planning draft: BT: High speed craft.
Planning: USE: Management.
Plant: USE: Machinery.
Plutonium, USE: Metals, USE: Structural strength.
Polished, USE: Metals, USE: Structural strength.
Plots, RT: Structural members, USE: Stiffeners, - - riveting, shipbuilding 055.0273; - - steel, rafters; tension, shipbuilding 053.0197; - - welding: iron: 064.0214; - - welding: iron: 064.0214.
Plots, USE: Structural members, USE: Steel, USE: Welding, - - riveting, shipbuilding 055.0273; - - steel, rafters; tension, shipbuilding 053.0197; - - welding: iron: 064.0214; - - welding: iron: 064.0214.
Plots, USE: Structural members, USE: Steel, USE: Welding, - - riveting, shipbuilding 055.0273; - - steel, rafters; tension, shipbuilding 053.0197; - - welding: iron: 064.0214; - - welding: iron: 064.0214.
Plots, USE: Structural members, USE: Steel, USE: Welding, - - riveting, shipbuilding 055.0273; - - steel, rafters; tension, shipbuilding 053.0197; - - welding: iron: 064.0214; - - welding: iron: 064.0214.
Plots, USE: Structural members, USE: Steel, USE: Welding, - - riveting, shipbuilding 055.0273; - - steel, rafters; tension, shipbuilding 053.0197; - - welding: iron: 064.0214; - - welding: iron: 064.0214.
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Roll-on roll-off ships: USE: Ro Ro ships.


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