

Bibliographical Information to Environmental Pollution — For its search procedure (2)

環境公害에 관한 文獻情報 (2)

— 그 調査方法을 中心으로 —

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다. Environment Abstracts

1971년에 EIC(Environment Information Center, Inc.)에 의해 創刊된 抄錄誌이며 刊行頻度は 月刊이나 7~8월은 合併號로 發行된다. 標題는 Air Pollution, Chemical & Biological Contamination, Noise Pollution, Radiological Contamination, Solid Waste, Water Pollution, Weather Modification & Geological Change 등 21個 項目으로 構成되었고 每號의 收錄 件數는 約 1,000件에 이르며 環境問題 全般을 ครอบคลุม하고 있다. 第7圖는 各 號末의 Subject Index의 例이며 主題 아래에 標題, 出典誌名, 卷號, 그리고 發行年이 있으며 特別히 페이지가 記事番號와 같이 一括하여 表示되어 있으므로 一般의 記事番號만을 表示한 다른 抄錄誌에 비해 檢索이 容易한 點이 特徵이라 하겠다.

라. Excerpta Medica Section 46 Environmental Health and Pollution Control

이 Excerpta Medica의 Section 46은 電算機로 編輯하는 環境公害分野의 專門的인 抄錄誌로서 1971년에

創刊되었으며 各號에 索引이 收錄되어 있다. 이 外에 Section 30 Pharmacology의 (Experimental and Clinical, 1975년에는 第33卷~35卷을 刊行, 各卷 10册)Sub-Section 32 Toxic Substances and Antagonists나 Section 35 Occupational Health and Industrial Medicine에서도 關聯있는 文獻을 찾아볼 수 있다.

마. Government Report Announcements and Index

美國政府의 補助에 의해 이루어진 研究報告書를 管理하고 있는 NTIS(National Technical Information Service)에 의해 出版되는 抄錄誌이다. 第8圖는 各號末의 Subject Index의 例이며 Environment Abstracts와 같다. 이 索引에는 標題가 記載되나 書誌事項이 없다. 抄錄에는 Keyword가 附記되어 있으나 이것은 美國政府 刊行物抄錄誌에서 볼 수 있는 一般的인 傾向에 準한 것이다. (第9圖)

바. Health Aspects of Pesticides Abstract Bulletin (HAPAB)

美國의 保健教育厚生省에 屬해 있는 FDA(Food and

Subject Index Section

This section, which is a cross-reference to the review of government agencies and programs, universities, personal

<b>ABORTION</b> Legal Abortions in the United States Since the 1973 Supreme Court Decision: Family Planning Perspectives, Jan/Feb 75, v. 7, n. 2(2) (8)	Some Effects of Stocking Fish in Waste Treatment Ponds, Water Research, March 75, v. 9, n. 3, p.511 (2)	13-75-00547
<b>ABORTION FACILITIES</b> Legal Abortions in the United States Since the 1973 Supreme Court Decision: Family Planning Perspectives, Jan/Feb 75, v. 7, n. 2(2) (8)	Application of Large-Scale Photography to a Forest Inventory, Forestry Chronicle, Feb 75, v. 51, n. 1, p.17 (7)	13-75-00597
<b>ABORTION LAW</b> In Support of Abortion: Political Science? Family Planning Perspectives, Jan/Feb 75, v. 7, n. 2(2) (8)	Effects of Carbonic Dioxide on Biological Wastewater Treatment, WPCF J. Mar 75, v. 47, n. 3, p.224 (11)	13-75-00499
<b>ADU DUES:</b> Dueses Food Factories, Technology Review, Jan 75, v. 17, n. 8, p.2 (3)	<b>AESETHETICAL ENY</b> Science Development Control and Public Access to the Coast's Edge: Coastal Zone Management J. 1974, v. 14, n. 5, p.11 (1)	06-75-00136
<b>ADU INDE:</b> Dueses Food Factories, Technology Review, Jan 75, v. 17, n. 8, p.2 (3)	<b>AESTHETICS, ENV.—URBAN</b> Vegetation and Urban Environment: J Urban Planning and Development Division, Mar 75, v. 101, n. 2, p.1 (1)	05-75-00180
<b>ADU INDE:</b> Dueses Food Factories, Technology Review, Jan 75, v. 17, n. 8, p.2 (3)	<b>AFRICA</b>	

第7圖 Environmental Abstract의 號末에 收錄된 Subject Index의 例

SUBJECT INDEX

<b>Nuclear power plants</b> Design of Nuclear Plants Against External Effects. Partial Aspect: Considerations on the Risk in Airplane Accident on a Nuclear Power Plant. Intermediate Report. IRS-W-12(3-75)	161
<b>ACETYLCHOLINE</b> Reprint: Acetylcholine and Norepinephrine Interactions on Cardiac Lipids and Hemodynamics. AD-A014 451/93(1)	6A
<b>ACID BONDED REACTION CEMENTS</b> Cement Cement from Marine Sources. PB-244 089/SGI	6L
<b>ACID MINE WASTES</b> The Recovery of Stream Macroinvertebrates from Low pH Streams. PB-243 843/CGI	13B
<b>ACIDITY</b> The Recovery of Stream Macroinvertebrates from Low pH Streams. PB-243 843/CGI	13B
<b>ACOUSTIC CHANNELS</b> Characterization of Active Underwater Acoustic Channels. Part I. A New Formulation for Scattering by Random Media and Interfaces. AD-A014 111/9GI	20A
Characterization of Active Underwater Acoustic Channels. Part II. Scattering in an Isovelocity Ocean. AD-A014 112/7GI	20A

第8圖 Government Report Announcement and Index의 Subject Index의 例

6T. Toxicology

<b>AD-A014 148/10A</b> Army Environmental Hygiene Agency Aberdeen Proving Ground Md Hazard Evaluation of Candidate Face Net Impregnant ENT-390 Dibutyl Terephthalate. Final rept, May 73-Nov 74. Maurice H. Weeks, Conrad Pope, and Joseph A. Macko, Jr. 1974, 19p Rept no. USAEHA-51-088-73/76	<b>PC33.25/MF52.25</b>
<b>Descriptors:</b> "Insect repellents, Toxicity, Tartrates, Irritant compounds, Impregnation, Neta, Aerosols, Inhalation, Ingestion(Physiology), Exposure(Physiology), Eye, Bioassay, Laboratory animals, Dosage.	
A hazard evaluation of the candidate face net impregnant dibutyl terephthalate (ENT 395) was performed by means of laboratory animal studies using rats and rabbits. The technical grade compound did not produce primary irritation when applied to the intact or abraded skin of rabbits. Mild injury to the cornea and slight chemosis, redness and discharge of the conjunctiva resulted from a single application to the eyes of rabbits. Data indicate little acute toxic hazard from accidental ingestion. Acute aerosol and subchronic saturated vapor inhalation exposures of rats resulted experimentally in no deleterious effect.	

第9圖 Government Report Announcement and Index





刊行되고 있는 月刊 抄録誌인 Environment Abstracts 의 年間 索引誌로서 發行되고 있으나 索引誌만을 購讀 할 수 있으며, 索引誌의 形態는 第15圖에 表示된 것과 같다.

**Subject index**

ADVERTISEMENTS	AIRCRAFT EMISSIONS, FEDERAL AVIATION ADMINISTRATION, P113484	*01-23-00176
HIGHWAY DEMONSTRATION, FEDERAL HIGHWAY ADMINISTRATION, P1181644	AIR IMPLEMENTATION PLANS, EPA V38 N15 P12920, N39 P12542	*01-23-00303
AGRICULTURE	AIR POLLUTION CONTROL, EPA V37 N111 P13380	*01-23-00304
ENVIRONMENTAL STATEMENTS, USDA V37 P218 P23736	AIR PROGRAMS, EPA V38 N99 P13561, N107 P14752, N119 P13722	*01-23-00305
APPLICATIONAL CONSERVATION PROGRAMS, V37 N236 P23596	MOTOR VEHICLE EMISSIONS, EPA V38 N108 P14682	*01-23-00306
NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	TRANSFORMATION CONTROL MEASURES, EPA V38 N110 P13534	*01-23-00307
AIR POLLUTION CONTROL	AIR IMPLEMENTATION PLANS, EPA V38 N118 P13834, N117 P13558	*01-23-00308
AIR STANDARDS IMPLEMENTATION PLANS, EPA V37 N217 P23836	AIR QUALITY CONTROL PLANS, EPA V38 N126 P14682, N127 P1726, N134 P18653	*01-23-00309
AIR POLLUTION CONTROL, EPA V37 N211 P24252-24230	AIR POLLUTION EQUIPMENT	
EMULSION SYSTEMS OF HOUSE, FEINER, H204	EMULSION SYSTEMS OF HOUSE, FEINER, H204	
NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	
NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	
NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	NATL POLLUTANT DISCHARGE ELIMINATION SYSTEM, V38 N128 P18000	

第15圖 Environment Index의 Subject Index (索引誌本文의 例)

다. Toxicity Bibliography

1968년에 National Library of Medicine에 의해 創刊된 索引誌로서 人間과 動物에 있어서의 毒性研究, 藥物의 副作用 및 中毒에 關한 研究 調查報告를 ครอบคลุม하고 있으며 1977년에는 第10卷(Vol. 10)이 刊行되고 있다. (季刊)

이 索引誌는 NLM의 電算機시스템 MEDLARS (Medical Literature Analysis and Retrieval System) 의 파일(File)에서 選擇되고 있으며, 毒物學과 그 關聯分野에 從事하고 있는 健康問題의 專門家들에게 이 分野의 世界的인 重要한 學術誌에 到達되도록 作成되었다. 文獻內容은 抄録이 아니며 主題를 表示하는 Sub-

**METHYL MERCURY COMPOUNDS**

**ADVERSE EFFECTS**

3331. How do chemical substances affect the environment? Goodman GT. Proc R Soc Lond [Biol] 195;127-48, 29 Jan 74  
ANIMAL EXPERIMENTS/ BIRDS/ CATTLE/ DDT, adverse effects/ ECOLOGY/ ENVIRONMENTAL POLLUTION/ FISHES/ HUMAN/ METHYL MERCURY COMPOUNDS, adverse effects/ PESTICIDE RESIDUES/ PESTICIDES, adverse effects/ WATER POLLUTION, CHEMICAL

**POISONING**

3336. Experimental alkylmercurial poisoning in swine. Lesions in the peripheral and central nervous systems. Charlton NW. Can J Comp Med 23:75-81, Jan 74  
ANIMAL EXPERIMENTS/ BRAIN, pathology/ CENTRAL NERVOUS SYSTEM DISEASES, chemically induced/ CENTRAL NERVOUS SYSTEM DISEASES, pathology/ CENTRAL NERVOUS SYSTEM DISEASES, veterinary/ FEMALE/ MALE/ MERCURY POISONING, pathology/ MERCURY POISONING, veterinary/ METHYL MERCURY COMPOUNDS, poisoning/ NERVE DEGENERATION/ PERIPHERAL NERVE DISEASES, chemically induced/ PERIPHERAL NERVE DISEASES, pathology/ PERIPHERAL NERVE DISEASES, veterinary/ PERIPHERAL NERVES, pathology/ SPINAL NERVE, pathology/ SPINAL NERVE ROOTS, pathology/ SWINE/ SWINE DISEASES, chemically induced/ SWINE DISEASES, pathology/ TIBIAL NERVE, pathology

第16圖 Toxicity Bibliography의 Entry例(標題, 出典源 및 있는 Keyword Group은 MeSH Term에서 選출한 것이다.)

ject Heading과 Subheading에 의해 表示된다. 主題의 標目과 索引語는 MeSH(Medical Subject Heading)에서 選定되어 있다. Section I은 "Drugs and Chemicals"이며 物質名으로 分類되었으므로 Subject Index로 도 檢索할 수 있다. Section II는 "Adverse Reactions to Drugs and Chemicals"로서 醫學的인 概念에 의해 18個의 大項目과 그 아래의 細部項目으로 分類되어 있다. Section I의 Drugs and Chemicals에 關한 例를 보면 MeSH Term에 依한 標題 밑에 記載된 文獻標題로 該當文獻에 關係되는 主題의 MeSH Term이 알파벳별로 記載되어 있다. (第16圖)

라. Science Citation Index

引用文獻과 論文의 主題語로 必要한 關聯文獻을 檢索하는 自然科學論文 引用誌로서 Institute for Scientific Information에 의해 刊行되는 索引誌이다. 醫學을 包含한 自然科學雜誌를 約 2,700種을 收錄하고 있다. 收錄데이터는 論文名, 掲載誌名, 年號, 卷數, 페이지, 著者 引用文獻과 그 著書, 掲載誌等이다. 內容의 構成은 Citation Index, Source Index, Permuterm Index로 되어 있으며 本誌의 特徵은 Citation Index에 있으나 Permuterm Subject Index에서도 檢索이 可能하다.

마. 雜誌記事索引 一科學技術編一

**Subject index**

A B C...順을 基價에 依한 形式에 記述된 英文을 最初にとり次に 片仮名, 漢字の順に 並べ, 漢字は同一漢字を 集めてある. 版元は 코드番号 (年代号款は 省略, 例: \*401... 0533-383). (英)は 漢字が 英文.

**A**

2-Acetyl-7-(2-hydroxy-3-isopropylamino)propoxybenzofuran	血清中濃度(英) 26
Acetylcholinesterase	— 活性-노코外周接合体質異性 2
ACTH	血漿 — 免疫 radioimmuno-assay — 尿中, 手術中 693
Actinomycin-D	治療 — 絨毛性胎毒 739
N-acetylmonosodium glutamate	AGS型尿毒 — 皮膚癩患治療 856
Adams-Stokes症候群	急性失性性白血病 383
Adrenochrome monooxygenohydride methanesulfonate	S-アドクソン — 眼底出血治療 612
Adenylyl cyclase	甲状腺 Hormone 레セプター 60 甲状腺 疾患 治療 59
Agmatine	鼠敗血肉中 — (英) 36

Aiclofenac	鼠敗血, 前立腺炎, 新藥 九炎治療 926 分岐性結合部創治療 788
Aldosterone	血漿 — 免疫 radioimmuno-assay — 尿中, 手術中 693 尿中 濃度 測定 187
Aldosterone症	悪性性 — 353
Alkyl benzene sulfonic acid	人体影響 162
Allergy	— — 反応 — 血管透過性 84 遅延型 — 反応 — 単核球遊走因子 130
Amine	尿毒症例 — 治療 — Dexamethasone Sodium Sulfate 706
Alprenolol	小児 —, 下痢 507 甲状腺疾患治療 363
Amine代謝	生体 — 内分泌機能 54
Amine代謝	脳内 — 血小板モデル 456 腸うつ病 457
Amino acid	フラクト大腸炎 治療 — Pentobarbital 尿毒 8 大腸神經 — 遅延型 — 103

第17圖 日本國內의 學術雜誌記事索引의 部分例

이 索引誌는 日本國立國會圖書館에서 編輯하여 紀伊國屋書店에 依해 發行되고 있으며 1950년에 創刊되었다. 이것은 日本國內에서 發行되는 科學技術關係의 雜誌記事를 21個 分野로 大別하여 分類되어 있다. 이 中에서 環境公害關係는 M 科學技術(大標題) 中의 自然災害·防災科學(小標題), NA 建設工學中의 都市工學·衛生工學, SC 醫學中의 衛生學·公衆衛生 등으로 分類되어 있다. 自然災害·防災科學은 다시 <大氣汚染> <水質汚染> 등으로 그리고 公衆衛生은 다시 <環境衛生>, <食品衛生>, <營養問題>, <勞動衛生> 등으로 再分類되었다. 各號末에는 主題名 參照索引이 있으며, 더우기 컴퓨터에 依한 機械編輯化에 隨伴하게 되어 1975年度分の 刊行은 不定期로 되었으나 1976年 부터는 定常的으로 刊行되고 있다.

바. 國內醫學雜誌記事

이 記事는 Japan Medical Service社에 依해 1970年에 發刊된 하나의 索引誌로서 年 30回 發行되고 있다. 이것은 國內에서 發行되는 醫齒藥 및 關聯雜誌의 記事內容을 64個項目으로 分類하였으며 이 中에 衛生學·公衆衛生學(公害)의 項目이 있다. 每號마다 項目索引과 人名索引이 있으며 年間 索引을 第5卷 부터 附加하였다. (第17圖)

맺 는 말

1970年 부터 1971年에 걸쳐 環境公害關係의 새로운 二次資料가 相當히 빠른 速度로 刊行되었을 뿐 만 아니라 質의으로도 整備가 되었음을 알 수가 있다. 특히 이러한 傾向과 環境公害問題에 있어서 情報活動의 重要性에 對한 認識을 높이게 된 動機는 1970年 8月에 當時 美國의 大統領이었던 닉슨氏가 議會에 提出한 俗稱 「公害敎書」(Environmental Quality—1970, the First Annual Report of the Council on Environmental Quality-Transmitted to the Congress)였으며, 이 敎書에 依하면 1970年代에 環境公害에 關한 事業을 美國이 着手할 重要施策으로 할것을 聲明한데 있는것 같다. 이 敎書의 內容은 環境破壞가 이토록 되기까지의 要因을 7個項目으로 列舉하였으며 이 項目中의 하나로 入口메이션 갭(Information Gap)이라는 要因을 들고

있다. 即, 技術分野에서나 政策分野에 있어서 必要한 情報가 必要할 때에 必要로 하는 사람에게 到達되지 않았기 때문에 環境破壞가 이토록 되었다는 主張을 하였다. 이와 같이 情報活動의 重要性을 強力히 指摘하므로써 當時 美國에서는 有名한 Battelle Memorial Institute에 環境公害情報活動의 國家的시스템에 對한 分析을 依賴하여 一年餘의 調査에 따라 文獻情報, 데이터情報, 크리어링(Clearing)機能等 세가지를 調整하여, 國家的 規模로 必要한 情報를 必要한 때에 必要한 곳에서 入手토록 하는 理想的인 國家的 情報시스템 即, Environmental Health Information Network이라는 名稱을 붙쳐 提案하였음을 參考로 添言해 두는 바이다.

이토록 積極的인 情報活動의 重要性은 比단 環境公害分野 뿐 만 아니라 어느 分野에서든지 重要한 機能임은 再言을 不許하는 바이다.

本稿의 目的은 特別히 近來 環境公害問題가 大端히 深刻한 社會問題로 擡頭됨에 따라 이 分野에 從事하는 분들을 위한 文獻調査를 위해 解説을 하는데 있었으나 原稿를 쓰면서 生覺해 본 結果, 이 分野의 研究者들이 自己가 必要한 情報를 直接 入手하거나 또는 檢索하는 것은 時間의 浪費라고 生覺이 되므로 이러한 情報의 提供은 우리 專門職들이 擔當해야 할 것으로 認識이 되어 內容의 方向을 專門職用으로 바꾸었다. 그러므로 本稿의 內容이 우리들 業務에 多少나마 도움이 되었음은 하는 마음 懇切하며 또한 環境公害分野의 研究者들에게도 이와같이 바라는 마음은 같다.

別表는 Institut für Dokumentationwes에서 發表된 公害關係二次資料를 選擇한 目錄이며 本稿中에서도 몇 가지 添加하였다.

<參 考 文 獻>

1. Ulrikson, G.U. and Others. An Environmental and Energy Information System. Environmental Letters, 9(4) 431—442, 1975
2. Sugiyama, M. & Kobayashi, K. Environmental Pollution. Information & Documentation, 18(11) 910—922, 1976
3. 小林和雄, 環境公害情報活動, 纖維と工業, 5(3) 175—188, 1972

[別表]

環境公害關係文獻收錄二次資料一覽表

番號	誌 名	發 行 機 關	發 行 國	言 語
1	科學技術文獻速報 <環境公害編>	Japan Infomation Center of Science & Technology	Japan	Japanese
2	Abstracts on Health Effects on Environmental Pollution	Biosciences Information Service	U.S.A.	English

3	Abstract on Hygiene	Bureau of Hygiene & Tropical Disease	U.K.	English
4	Abstract of Recent Published Material on Soil and Water	Soil and Water Conservation Research Division, Agriculture Research Service, U.S. Dep. of Agriculture Plant Industry Station	U.S.A.	English
5	Agronomy Abstracts	American Society of Agronomy	U.S.A.	English
6	Air Pollution Abstracts	United Kingdom Ministry of Technology	U.K.	English
7	Air Pollution Titles	Center for Air Environmental Studies, the Pennsylvania State University	U.S.A.	English
8	American Industrial Hygiene Association Journal	American Industrial Hygiene Association (AIHA)	U.S.A.	English
9	Analysen und Prognosen über die Welt von morgen Zeitschrift für die Zukunftsforschung	Zentrum Berlin für die Zukunftsforschung (ZBZ)	W. Ger.	German
10	Analytical Abstracts	Society for Analytical Chemistry	U.K.	English
11	Animaux de Laboratoire	Centre National de la Recherche Scientifique (CNRS)	France	French
12	Annotated Bibliographies of Soil Science	Commonwealth Bureau of Soils, Rothamsted Experimental Station Harpenden	U.K.	English
13	APCA Abstracts	Air Pollution Control Association (APCA)	U.S.A.	English
14	API Abstracts of Air and Water Conservation Literature and Patents	American Petroleum Institute (API)	U.S.A.	English
15	Agricultural Abstracts	Bee Research Association	U.K.	English
16	Applied Science and Technology Index	H.W. Wilson Co.	U.S.A.	English
17	Aquatic Science & Fisheries Abstracts	FAO, Viale delle Terme di Caracalla	U.K.	English
18	Atmospheric Environment	Pergamon Press	U.K.	English
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20	Bibliographia Scientiae Naturalis Helvetic	Schweizerische Landesbibliothek	Swiss	German & French
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35	Chemical Abstract	American Chemical Society (ACS)	U.S.A.	Eng. Fren.
36	CRM-Documentatie	Ministerie van Cultuur, Recreatie en Maatschappelijk Werk	Netherland	Orig. Lang.
37	Current Literature on Water (CLOW)	South African Council for Scientific and Industrial Research (SA-CRIR), National Institute for Water Research (NIWR)	South Afr.	English
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41	Documentation für Umweltschutz und Landespflege	Bundesanstalt für Vegetationskunde, Naturschutz u. Landschaftspflege	West Ger.	German
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61	Institut für Raumordnung, Informationen	Institut für Raumordnung in der Bundesforschungsanstalt für Landeskunde und Raumordnung	East Ger.	German
62	INTRREDIS=International Tree Disease Register	Dr. George H. Hepting, U.S. Forest Service	U.S.A.	English
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95	VDI-Dokumentation Reinhaltung der Luft Selecta: Informationsdienst jüber Lufthygiene	VDI-Kommission Reinhaltung der Luft	West Ger.	German
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