

目錄 Directory

參加紐西蘭二〇〇一年科技展覽會

NEW ZEALAND NATIONAL SCIENCE AND ENGINEERING FAIR 2001

1. Dudeney's 幾何分割問題之逆推及演繹
2. 消波塊的阻浪效果及其對河川橋墩之影響

邱冠霖
鄭勝丰

參加香港第三十四屆聯校科學展覽會

34TH JOINT SCHOOL SCIENCE EXHIBITION

1. 如何移動棋子的問題
2. 中國人的智慧 魚洗
3. 四分天下 嘉南沿海地區紅樹林的分佈

葉均承 193-198
黃旭宏 199-210
楊韻儒 211-221

參加新加坡第二十四屆青年科學節

THE 24TH YOUTH SCIENCE FESTIVAL 2001

1. 戰略思考的遊戲 L 棋
2. 土壤液化與沉陷現象

李訓賢 221-236
田竣宇 237-242

★ 中華民國九十年參加國際科學展覽活動參展作品一覽表

★ 附錄：泛太平洋地區國家參加中華民國第四十一屆中小學科學展覽會優勝作品摘要

APPENDIX: Abstract of Projects from Winners of the 41st National Primary and High Schools Science Fair of R.O.C.

1. Geohistorical Significance in the Dyke and Epiclastic Sediments of Jeju Island Formation Theory Dae-han Won, Un-Kyung Park 243-246
2. Development of Larval Bioassays for Screening of Natural Products with Potential Antifouling Activity ENgeow Jia Hao Alvin 247
3. The Effect of Alpha-Lipoic Acid on Atherosclerosis Risk in Overiectomised Rats Sasikaladevi, Ong Mei Ling 248-249
4. Bio-Fertilizer Synopsis Lushino Shaban Omari 250-251
5. Calculogger Blazej Kot 252-253
6. Crop Nitrate Katie Mccaughan 254-255
7. Influence of Fatty Acid on Cell Growth and Sophorolipid Biosynthesis by Candida bombicola Jamie Chan 256
8. The Efficiency of Amantadine and Phosphonoacetic Acid (PAA) Against Grouper Iridovirus Replication in Vitro EGordon Chris topher 257
9. Limestone Deposits Synopsis January Ryan Brandon William 258
10. Automatic Greenhouse Miguel Huerta Palacios, Luis Fran cisco Lopez Rubio 259-262

中華民國九十年參加國際科學展覽活動

參加美國第五十二屆國際科技展覽會

52nd INTERNATIONAL SCIENCE & ENGINEERING FAIR 2001

1.表面張力的誤差探討與實驗改進	黃泰翔
A Novel Surface Tension Measuring Method and Apparatus	1-20
2.辣椒成分對自由基及肝癌細胞終端酵素之影響	袁于婷
The Effects of Capsaicin on Free Radicals and Telomerase	21-34
3.再現生機 由蝌蚪尾巴探討動物再生	陸惠宗
Search for Protein(s) Differentially Expressed During Tissue Regeneration of the Tadpole tail	35-46
4.寡不敵眾 將一條線段切成任意斷數時，其中任一段長度的某一倍數小於其他各段長度總和之機率	周宜新
Geometric Probability of Segment Decomposition	47-62
5.腸病毒疫苗基因(VP1)重組蛋白質之表現與抗體生成之研究	林彥綸
Expression of Recombinant EV71 Capsid Protein (Vp1) and Production of Antibodies Directed to It	63-72
6.太陽Limb Darkening效應之探討	葉承育、陳至凡
A Study on Solar Limb Darkening	73-86
7.A Almighty Problem Solver: Genetic Algorithms	張琮翔
	87-97

參加法國二〇〇一年科學博覽會

8TH INTERNATIONAL EXPO-SCIENCES (ESI 2001 GRENOBLE)

1.細繩和圓柱間摩擦與張力分佈的研究	蕭曉文
Measurement of The Static Friction and The Distribution of The Tension of A Cord in Contact with Abronze Cylinder	98-112
2.台東地區誘發焚風現象之研究	張其叡
Foehn in Eastern Taiwan	113-136
3.即時視焦自動追蹤系統	鄭劭宇
ARGUS A Real-time Gaze-tracking Utilizing Systemaisl	137-155

參加加拿大二〇〇一年科學展覽會

CANADA-WIDE SCIENCE FAIR 2001

1.二維細胞神經網絡之個數解研究	戴清琮
Number of Stable Equilibria in Two Dimensional Cellular Neural Network	156-172
2.烯雙炔類對DNA拓樸異構酵素的活性抑制實驗	陳君琳
A Series of Non-Radical Formation Enediyne as Novel inhibitors of Topoisomerase I	173-192