



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2002 – 3^{ème} trimestre

132 articles ont été répertoriés pendant la période du 11 juin au 30 septembre 2002.

Les articles sont classés selon les chapitres suivants :

I- SUBSTANCES

- I-1. Gaz inorganiques (radon, O₃, NO_x, CO)
- I-2. COV et CO-Semi-Volatils
- I-3. Particules
- I-4. Biocontaminants
- I-5. Pesticides / biocides
- I-6. Métaux
- I-7. Fumée de tabac environnementale

II- LIEUX DE VIE

- II-1. Habitat privé
- II-2. Transports
- II-3. Autres lieux de vie : écoles, bureaux, espaces de loisirs, lieux publics
- II-4. Ventilation
- II-5. Modélisation
- II-6. Relations air intérieur - air extérieur

III- EFFETS SANITAIRES

- III-1. Effets chez l'animal
- III-2. Effets chez l'homme
- III-3. Populations sensibles

IV- EVALUATION DES RISQUES

- IV-1. Expologie : mesure de l'exposition et ses outils (indicateurs biologiques, budgets espace-temps)
- IV-2. Evaluation des risques

V- GESTION / REMEDIATION

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

Chaque article, à l'exception des articles de synthèse qui sont compilés en fin de document, n'apparaissent que dans un seul chapitre. Le lecteur est dès lors invité à compléter sa consultation d'un chapitre particulier par une recherche par mot-clé.

Le lecteur est invité à se reporter à la note relative à la veille scientifique pour la liste des revues et bases de recherche bibliographique consultées dans le cadre de la veille scientifique menée par le réseau RSEIN.



I- SUBSTANCES

I-1. Gaz inorganiques

- RADON

1. **TI** : Effects of environmental conditions on the radon daughters spatial distribution
AU : Godoy, M; Hadler, JC; Iunes, PJ; Mestanza, SN; Oliveira, RA; Osorio, AM; Paulo, SR
SO : RADIATION MEASUREMENTS, 35 (3): 213-221 JUN 2002
2. **TI** : Effectiveness of Radon Mitigation Measures in 12 Houses 10 Years after Implementation
AU : J.P. Rydock, A. Næss-Rolstad, J.T. Brunsell
SO : Indoor and Built Environment 11:1:2002, 38-43.
3. **TI** : Po-210 implanted in glass surfaces by long term exposure to indoor radon
AU : Steck, DJ; Alavanja, MCR; Field, RW; Parkhurst, MA; Bates, DJ; Mahaffey, JA
SO : HEALTH PHYSICS, 83 (2): 261-271 AUG 2002
4. **TI** : A simple passive monitor for integrating measurements of indoor thoron concentrations
AU : Zhuo, WH; Tokonami, S; Yonehara, H; Yamada, Y
SO : REVIEW OF SCIENTIFIC INSTRUMENTS, 73 (8): 2877-2881 AUG 2002
5. **TI** : Radon entry, migration and reduction in houses with cellars
AU : Wang, F; Ward, IC
SO : BUILDING AND ENVIRONMENT, 37 (11): 1153-1165 NOV 2002

I-2. COV, CO-Semi-Volatils

6. **TI** : Detection of indoor PCB contamination by thermal desorption of dust - A rapid screening method?
AU : Wilkins, K; Bowadt, S; Larsen, K; Sporning, S
SO : ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 9 (3): 166-168 2002
7. **TI** : Measurement of diffusion coefficients of VOCs for building materials: review and development of a calculation procedure
AU : F. Haghghat, C.-S. Lee, W. S. Ghaly
SO : Indoor Air 12(2) ; 2002
8. **TI** : Non-professional paint stripping, model prediction and experimental validation of indoor dichloromethane levels
AU : M. P. van Veen, F. Fortezza, E. Spaans, T. T. Mensinga
SO : Indoor Air 12(2) ; 2002
9. **TI** : Formaldehyde Levels and the Factors Affecting These Levels in Homes in Perth, Western Australia
AU : P. Dingle, P. Franklin
SO : Indoor and Built Environment 11:2:2002, 111-116.
10. **TI** : Permeation passive sampling as a tool for the evaluation of indoor air quality
AU : Zabiegala, B; Gorecki, T; Przyk, E; Namiesnik, J
SO : ATMOSPHERIC ENVIRONMENT, 36 (17): 2907-2916 JUN 2002
11. **TI** : Sensitive indoor air monitoring of monoterpenes using different adsorbents and thermal desorption gas chromatography with mass-selective detection
AU : Hollender, J; Sandner, F; Moller, M; Dott, W
SO : JOURNAL OF CHROMATOGRAPHY A, 962 (1-2): 175-181 JUL 12 2002

12. **TI:** Indoor hydrogen peroxide derived from ozone/d-limonene reactions
AU: Li, TH; Turpin, BJ; Shields, HC; Weschler, CJ
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 36 (15): 3295-3302 AUG 1 2002
13. **TI:** Determination of polychlorinated biphenyl compounds in indoor air samples
AU: Criado, MR; Pereiro, IR; Torrijos, RC
SO: JOURNAL OF CHROMATOGRAPHY A, 963 (1-2): 65-71 JUL 19 2002
14. **TI:** Solid-phase microextraction (SPME) for rapid field sampling and analysis by gas chromatography-mass spectrometry (GC-MS)
AU: Hook, GL; Kimm, GL; Hall, T; Smith, PA
SO: TRAC-TRENDS IN ANALYTICAL CHEMISTRY, 21 (8): 534-543 AUG 2002
15. **TI:** Quantification of Polycyclic Aromatic Hydrocarbons and Aliphatic Hydrocarbons in Air Particulate samples in Homes
AU: Chao C.Y.H.
SO : Indoor + Built Environment 11 (3) 2002
16. **TI:** Novel Technique for Measuring Low Molecular Weight Chemicals in Indoor Dust
AU: Nilsson A.,
SO: Indoor + Built Environment 11 (3) 2002

ARTICLE DE SYNTHESE

17. **TI:** Passive sampling
AU : Gorecki, T; Namiesnik, J
SO : TRAC-TRENDS IN ANALYTICAL CHEMISTRY, 21 (4): 276-291 APR 2002

• **Emissions du bois**

18. **TI:** Emissions of total volatile organic compounds from pressed wood products in an environmental chamber
AU: Guo, H; Murray, F; Lee, SC
SO: BUILDING AND ENVIRONMENT, 37 (11): 1117-1126 NOV 2002

I-3. Particules

19. **TI:** On the impact of the human (child) microclimate on passive aerosol monitor performance
AU : Eisner, AD; Heist, DK; Drake, ZE; Mitchell, WJ; Weiner, RW
SO : AEROSOL SCIENCE AND TECHNOLOGY, 36 (7): 803-813 JUL 2002
20. **TI:** Effect of face velocity and the nature of aerosol on the collection of submicrometer particles by electrostatic precipitator
AU : L. Morawska, V. Agranovski, Z. Ristovski and M. Jamriska
SO : Indoor Air 12(2) ; 2002
21. **TI:** Size Distribution of Indoor Particulate Matter in 60 Homes in Hong Kong
AU : Christopher Y. Chao, Kelvin K. Wong, Eddie C. Cheng
SO : Indoor and Built Environment 11:1:2002, 18-26.
22. **TI:** Source Apportionment of Indoor PM_{2,5} and PM₁₀ in Homes
AU : Christopher Y. Chao, Eddie C. Cheng
SO : Indoor and Built Environment 11:1:2002, 27-37.
23. **TI:** Comparison of light scattering devices and impactors for particulate measurements in indoor, outdoor, and personal environments
AU : Liu, LJS; Slaughter, JC; Larson, TV
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 36 (13): 2977-2986 JUL 1 2002

24. **TI**: Continuous monitoring of ultrafine, fine, and coarse particles in a residence for 18 months in 1999-2000
AU: Wallace, L; Howard-Reed, C
SO: JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 52 (7): 828-844 JUL 2002
 fine and coarse particle concentrations were observed 12 and 15% of the time, respectively. When an indoor
25. **TI**: Development and evaluation of a personal cascade impactor sampler (PCIS)
AU: Misra, C; Singh, M; Shen, S; Sioutas, C; Hall, PA
SO: JOURNAL OF AEROSOL SCIENCE, 33 (7): 1027-1047 JUL 2002
26. **TI**: Instrumentation Issue in Indoor Air Quality Measurements : the Case with Respirable Suspended Particulates
AU: Niu J.,
SO: Indoor + Built Environment 11 (3) 2002

I-4. Biocontaminants

27. **TI**: Predictors of cat allergen (Fel d 1) in house dust of German homes with/without cats
AU: Fahlbusch, B; Gehring, U; Richter, K; Wichmann, HE; Heinrich, J; INGA-Study Grp
SO: JOURNAL OF INVESTIGATIONAL ALLERGOLOGY & CLINICAL IMMUNOLOGY, 12 (1): 12-20
28. **TI**: Airborne Fungi in Non-Problem Buildings in a Southern-Hemisphere Mediterranean Climate: Preliminary Study of Natural and Mechanical Ventilation
AU: P.C. Kemp, H.G. Neumeister-Kemp, F. Murray, G. Lysek
SO: Indoor and Built Environment 11:1:2002, 44-53.
29. **TI**: Evaluation of PCR primers and PCR conditions for specific detection of common airborne fungi
AU: Wu, ZH; Wang, XR; Blomquist, G
SO: JOURNAL OF ENVIRONMENTAL MONITORING, 4 (3): 377-382 JUN 2002
30. **TI**: Pigeon allergens in indoor environments: a preliminary study
AU: Curtis, L; Lee, BS; Cai, D; Morozova, I; Fan, JL; Scheff, P; Persky, V; Einoder, C; Diblee, S
SO: ALLERGY, 57 (7): 627-631 JUL 2002
31. **TI**: Bacterial and fungal aerosols in indoor environment in Central and Eastern European countries
AU: Gorny, RL; Dutkiewicz, J
SO: ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE, 9 (1): 17-23 2002
32. **TI**: Indoor fungi and their ciliostatic metabolites
AU: Pieckova, E; Kunova, Z
SO: ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE, 9 (1): 59-63 2002
33. **TI**: Occurrence of Toxigenic *Aspergillus versicolor* Isolates and Sterigmatocystin in Carpet Dust from Damp Indoor Environments
AU: Steffen Engelhart, Annette Looock, Dirk Skutlarek, Helmut Sagunski, Annette Lommel, Harald Färber, and Martin Exner
SO: Appl. Environ. Microbiol. 2002. 68(8): 3886-3890
34. **TI**: Concentration en allergènes majeurs d'acariens du groupe 1 dans la moquette : comparaison entre des chambres à coucher et des bureaux
AU: V. Freund, F. Lieutier-Colas, M. Ott, A. Vérot, G. Pauli and F. de Blay
SO: Revue Française d'Allergologie et d'Immunologie Clinique, 42 (4): 402-409 JUN 2002
35. **TI**: Fungal fragments as indoor air biocontaminants
AU: Gorny, RL; Reponen, T; Willeke, K; Schmechel, D; Robine, E; Boissier, M; Grinshpun, SA
SO: APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 68 (7): 3522-3531 JUL 2002
36. **TI**: Decay of house-dust mite allergen Der f 1 at indoor climatic conditions
AU: Sidenius, KE; Hallas, TE; Stenderup, J; Poulsen, LK; Mosbech, H
SO: ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 89 (1): 34-37 JUL 2002

37. **TI:** Trace analysis of muramic acid in indoor air using an automated derivatization instrument and GC-MS2 or GC-MS3

AU: Harley, WM; Kozar, MP; Fox, A

SO: JOURNAL OF MICROBIOLOGICAL METHODS, 51 (1): 95-104 SEP 2002

38. **TI:** Populations and determinants of airborne fungi in large office buildings

AU: Chao, HJ; Schwartz, J; Milton, DK; Burge, HA

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (8): 777-782 AUG 2002

I-5. Pesticides

39. **TI:** Influence of moisture on chemical transferability from a nylon carpet

AU: Williams, RL; Bernard, CE; Krieger, RI

SO: BULLETIN OF ENVIRON. CONTAMINATION AND TOXICOLOGY, 69 (3): 436-443 SEP 2002

I-6. Métaux

Aucun article

I-7. Fumée de tabac environnementale

Aucun article



II- LIEUX DE VIE

II-1. Habitat privé

40. **TI** : Architectural concepts and the reduction of allergen exposure
AU : de Blay, F; Fourgaut, G; N'Gom, S
SO : Revue Francaise d'Allergologie et d'Immunologie Clinique, 42 (3): 256-262 APR 2002

II-2. Transports

41. **TI** : Chemical Gas Sensors for Car Exhaust and Cabin Air Monitoring
AU : Eva-Lotta Kalman, Fredrik Winquist, Anders Löfvendahl, Bertil Rudell, Urban Wass
SO : Indoor and Built Environment 11:2:2002, 105-110.
42. **TI** : Actual commuter exposure to methyl-tertiary butyl ether, benzene and toluene while traveling in Korean urban areas
AU: Jin-Woo Lee and Wan-Kuen Jo,
SO: The Science of The Total Environment Volume 291, Issues 1-3, 27 May 2002, Pages 219-228
43. **TI** : Tagungsbericht: Luftqualität in Innenräumen von Verkehrsmitteln Zusammenfassung der Ergebnisse der 9. WaBoLu-Innenraumtage vom 6. bis 8. Mai 2002 im Umweltbundesamt
AU: Moriske H-J.
SO: Bundesgesundheitsblatt - Gesundheitsforschung – Gesundheitsschutz ; Vol 45 Issue 9 (2002) pp 722-727

II-3. Autres lieux de vie

- BUREAUX

44. **TI** : Baseline indoor air quality measurements collected from 136 metropolitan New York region commercial office buildings between 1997-1999
AU : Springston, JP; Esposito, WA; Cleversey, KW
SO : AIHAJ, 63 (3): 354-360 MAY-JUN 2002

- ECOLES

45. **TI** : Indoor air microbes and respiratory symptoms of children in moisture damaged and reference schools
AU: Meklin, T; Husman, T; Vepsalainen, A; Vahteristo, M; Koivisto, J; Halla-Aho, J; Hyvarinen, A; Moschandreas, D; Nevalainen, A
SO: INDOOR AIR, 12 (3): 175-183 SEP 2002

- RESTAURANTS

46. **TI** : Risk Assessment of Occupational Exposure to Environmental Tobacco Smoke Emissions
AU : N. El-Hougeiri, M. El Fadel
SO : Indoor and Built Environment 11:2:2002, 83-94.

- PARKINGS

47. **TI**: Assessment of the Air Quality in Indoor Car Parks
AU: Wong Y.
SO: Indoor + Built Environment 11 (3) 2002

- **LIEUX PUBLICS**

48. **TI:** Environmental Tobacco Smoke and Ventilation in 20 Social Venues in Perth, Western Australia
AU: Dingle P.,
SO: Indoor + Built Environment 11 (3) 2002

II-4. Ventilation

49. **TI:** Continuous measurements of air change rates in an occupied house for 1 year: The effect of temperature, wind, fans, and windows
AU: Wallace, LA; Emmerich, SJ; Howard-Reed, C
SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRON. EPIDEMIOLOGY, 12 (4): 296-306, JUL 2002

50. **TI:** Indoor air quality comparison of two air-conditioned zones served by the same air-handling unit
AU: Tham, KW; Sekhar, SC; Cheong, D
SO: BUILDING AND ENVIRONMENT, 37 (10): 947-960 OCT 2002

ARTICLE DE SYNTHÈSE

51. **TI:** Ventilation rates and health
AU: Seppanen, O; Fisk, WJ; Mendell, MJ
SO : ASHRAE JOURNAL, 44 (8): 56-58 AUG 2002

II-5. Modélisation

52. **TI:** Sorption Isotherms of Acetone on Various Building Materials
AU : Anne-Lise Tiffonnet, Patrice Blondeau, Francis Allard, Fariborz Haghighat
SO : Indoor and Built Environment 11:2:2002, 95-104.

53. **TI:** Elaboration and application of mathematical model for estimation of mould contamination of some building materials based on ergosterol content determination
AU : Gutarowska, B; Zakowska, Z
SO : INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 49 (4): 299-305 2002

54. **TI:** Numerical Evaluation of the Effect of Traffic Pollution on Indoor Air Quality of a Naturally Ventilated Building
AU: Chang T-J.
SO : J. of the Air & Waste Management Association 52(9) Sept 2002, 1043-1053

55. **TI:** Dispersal of exhaled air and personal exposure in displacement ventilated rooms
AU: Bjorn, E; Nielsen, PV
SO: INDOOR AIR, 12 (3): 147-164 SEP 2002

56. **TI:** Modeling the reversible, diffusive sink effect in response to transient contaminant sources
AU: Zhao, D; Little, JC; Hodgson, AT
SO: INDOOR AIR, 12 (3): 184-190 SEP 2002

II-6. Air extérieur – Air intérieur

57. **TI:** Polycyclic aromatic hydrocarbons in the indoor and outdoor air of three cities in the US
AU : Naumova, YY; Eisenreich, SJ; Turpin, BJ; Weisel, CP; Morandi, MT; Colome, SD; Totten, LA; Stock, TH; Winer, AM; Alimokhtari, S; Kwon, J; Shendell, D; Jones, J; Maberti, S; Wall, SJ
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 36 (12): 2552-2559 JUN 15 2002

58. **TI**: Exposure chain of urban air PM_{2.5} - associations between ambient fixed site, residential outdoor, indoor, workplace and personal exposures in four European cities in the EXPOLIS-study

AU : Kousa, A; Oglesby, L; Koistinen, K; Kunzli, N; Jantunen, M

SO : ATMOSPHERIC ENVIRONMENT, 36 (18): 3031-3039 JUN 2002

59. **TI**: Spatial and temporal variability in outdoor, indoor, and personal PM_{2.5} exposure

AU : Adgate, JL; Ramachandran, G; Pratt, GC; Waller, LA; Sexton, K

SO: ATMOSPHERIC ENVIRONMENT, 36 (20): 3255-3265 JUL 2002

60. **TI**: Environmental NO₂ concentration and exposure in daily life along main roads in Tokyo

AU: Kodama, Y; Arashidani, K; Tokui, N; Kawamoto, T; Matsuno, K; Kunugita, N; Minakawa, N

SO: ENVIRONMENTAL RESEARCH, 89 (3): 236-244 JUL 2002



III- EFFETS SANITAIRES

III-1. Effets chez l'animal

61. **TI** : Molecular mechanisms of nitrogen dioxide induced epithelial injury in the lung
AU : Persinger, RL; Poynter, ME; Ckless, K; Janssen-Heininger, YMW
SO : MOLECULAR AND CELLULAR BIOCHEMISTRY, 234 (1): 71-80 MAY-JUN 2002
62. **TI** : Murine Strain Differences in Airway Inflammation Induced by Diesel Exhaust Particles and House Dust Mite Allergen
AU : Kaori Sadakane, Takamichi Ichinose, Hirohisa Takano, Rie Yanagisawa, Masaru Sagai, Toshikazu Yoshikawa, Takayuki Shibamoto
SO : Int Arch Allergy Immunol ; 2002;128(3):220-228
63. **TI** : Upper airway and pulmonary effects of oxidation products of (+)-alpha-pinene, d-limonene, and isoprene in BALB/c mice
AU : Rohr, AC; Wilkins, CK; Clausen, PA; Hammer, M; Nielsen, GD; Wolkoff, P; Spengler, JD
SO : INHALATION TOXICOLOGY, 14 (7): 663-684 JUL 2002

III-2. Effets chez l'homme

- **RADON**

64. **TI** : Residential radon in US counties v lung cancer in women who predominantly never smoked
AU : Bogen, KT; Cullen, J
SO : ENVIRONMENTAL GEOCHEMISTRY AND HEALTH, 24 (3): 229-247 SEP 2002

- **ARTICLE DE SYNTHESE**

65. **TI** : The precautionary principle applied to lung cancer risk caused by residential radon
AU : de Brouwer, C; Lagasse, R
SO : REVUE D EPIDEMIOLOGIE ET DE SANTE PUBLIQUE, 50 (2): 147-157 APR 2002

- **ARTICLE DE SYNTHESE**

66. **TI** : Residential radon exposure and lung cancer: Risk in nonsmokers
AU : Neuberger, JS; Gesell, TF
SO : HEALTH PHYSICS, 83 (1): 1-18 JUL 2002

- **BIOCONTAMINANTS**

67. **TI** : Studies of sick building syndrome. IV. Mycotoxicosis
AU : Assouline-Dayana, Y; Leong, A; Shoenfeld, Y; Gershwin, ME
SO : JOURNAL OF ASTHMA, 39 (3): 191-201 2002
68. **TI** : Cockroach sensitivity in Norway: a previously unidentified problem?
AU : Carlsen, KCL; Carlsen, KH; Buchmann, MS; Wikstrom, J; Mehl, R; GAIN
SO : ALLERGY, 57 (6): 529-533 JUN 2002
 unclear clinical implications, we suggest that cockroach allergy should be considered in atopic subjects with
69. **TI** : Effects after inhalation of (1 M 3)-g-D-glucan and relation to mould exposure in the home
AU : Lena Beijerca, Jörgen Thorn, Ragnar Rylander
SO : Mediators of Inflammation Issue: Volume 11, Number 3/June 2002 Pages: 149 - 153
70. **TI** : Slowly decreasing mucosal hyperreactivity years after working in a school with moisture problems
AU : S. Rudblad, K. Andersson, G. Stridh, L. Bodin, J. E. Juto
SO : Indoor Air 12(2) ; 2002

71. **TI** : Comparison of inflammatory elements in nasal lavage and induced sputum following occupational exposure to moldy-building microbes

AU : Purokivi, A; Hirvonen, MR; Roponen, M; Randell, J; Vahteristo, A; Tukiainen, H

SO : INHALATION TOXICOLOGY, 14 (6): 653-662 JUN 2002

72. **TI** : Immunoglobulin G antibodies against indoor dampness-related microbes and adult-onset asthma: a population-based incident case-control study

AU : Jaakkola, MS; Laitinen, S; Piipari, R; Uitti, J; Nordman, H; Haapala, AM; Jaakkola, JJK

SO : CLINICAL AND EXPERIMENTAL IMMUNOLOGY, 129 (1): 107-112 JUL 2002

73. **TI**: IgE-reactive proteins from *Stachybotrys chartarum*

AU: Barnes, C; Buckley, S; Pacheco, F; Portnoy, J

SO: ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 89 (1): 29-33 JUL 2002

74. **TI**: Housing characteristics, reported mold exposure, and asthma in the European Community Respiratory Health Survey

AU: Zock, JP; Jarvis, D; Luczynska, C; Sunyer, J; Burney, P; European Community Resp Hlth Surv

SO: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 110 (2): 285-292 AUG 2002

75. **TI**: Use of a chimeric ELISA to investigate immunoglobulin E antibody responses to Der p 1 and Der p 2 in mite-allergic patients with asthma, wheezing and/or rhinitis

AU : Trombone, APF; Tobias, KRC; Ferriani, VPL; Schuurman, J; Aalberse, RC; Smith, AM; Chapman, MD; Arruda, LK

SO: CLINICAL AND EXPERIMENTAL ALLERGY, 32 (9): 1323-1328 SEP 2002

• **FUMEE DE TABAC ENVIRONNEMENTALE**

76. **TI** : Involuntary smoking and lung cancer

AU : Boffetta, P

SO : SCANDINAVIAN JOURNAL OF WORK ENVIRONMENT & HEALTH, 28: 30-40 Suppl. 2 2002

77. **TI**: Environmental tobacco smoke exposure and pulmonary function among adults in NHANES III: Impact on the general population and adults with current asthma

AU: Eisner, MD

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (8): 765-770 AUG 2002

78. **TI** : Revisiting the Association between Environmental Tobacco Smoke Exposure and Lung Cancer Risk, IV. Investigating Heterogeneity between Studies

AU : Peter N Lee, Barbara Forey, John S. Fry

SO : Indoor and Built Environment 11:1:2002, 4-17

ARTICLE DE SYNTHÈSE

79. **TI** : Effects of environmental tobacco smoke on the respiratory health of adults

AU : Jaakkola, MS; Jaakkola, JJK

SO : SCANDINAVIAN JOURNAL OF WORK ENVIRONMENT & HEALTH, 28: 52-70 Suppl. 2 2002

ARTICLE DE SYNTHÈSE

80. **TI** : Revisiting the Association between Environmental Tobacco Smoke Exposure and Lung Cancer Risk V. Overall Conclusions

AU : Peter N. Lee, John S. Fry, Barbara Forey

SO : Indoor and Built Environment 11:2:2002, 59-82.

• **EFFETS SANITAIRES DU CHAUFFAGE AU BOIS**

81. **TI** : The role of woodstoves in the etiology of nasal polyposis

AU : Kim, J; Hanley, JA

SO : ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY, 128 (6): 682-686 JUN 2002

ARTICLE DE SYNTHÈSE82. **TI** : The toxicology of inhaled woodsmoke**AU** : Zelikoff, JT; Chen, LC; Cohen, MD; Schlesinger, RB**SO** : JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART B-CRITICAL REVIEWS, 5 (3): 269-282 JUL-SEP 2002• **SICK BUILDING SYNDROME / VENTILATION**83. **TI** : Subjective perceptions, symptom intensity and performance: a comparison of two independent studies, both changing similarly the pollution load in an office**AU** : P. Wargocki, L. Lagercrantz, T. Witterseh, J. Sundell, D. P. Wyon, P. O. Fanger**SO** : Indoor Air 12(2) ; 200284. **TI** : Upper respiratory symptoms associated with aging of the ventilation system in artificially ventilated offices in Sao Paulo, Brazil**AU** : Graudenz, GS; Kalil, J; Saldiva, PH; Gambale, W; Latorre, MDDO; Morato-Castro, FF**SO** : CHEST, 122 (2): 729-735 AUG 200285. **TI** : Relationships between indoor environments and nasal inflammation in nursing personnel**AU** : Smedbold, HT; Ahlen, C; Nilsen, AM; Norback, D; Hilt, B**SO** : ARCHIVES OF ENVIRONMENTAL HEALTH, 57 (2): 155-161 MAR-APR 200286. **TI** : Effects in the eyes caused by exposure to office dust**AU** : Molhave, L; Kjaergaard, SK; Attermann, J**SO** : INDOOR AIR, 12 (3): 165-174 SEP 2002**ARTICLE DE SYNTHÈSE**87. **TI** : Association of ventilation system type with SBS symptoms in office workers**AU** : O. Seppänen , W. J. Fisk**SO** : Indoor Air 12(2) ; 2002**ARTICLE DE SYNTHÈSE**88. **TI** : Ventilation and health in non-industrial indoor environments: report from a European Multidisciplinary Scientific Consensus Meeting (EUROVEN)**AU** : P. Wargocki, J. Sundell, W. Bischof, G. Brundrett, P. O. Fanger, F. Gyntelberg, S. O. Hanssen, P. Harrison, A. Pickering, O. Seppänen, P. Wouters**SO** : Indoor Air 12(2) ; 2002**ARTICLE DE SYNTHÈSE**89. **TI** : Indoor environmental exposures and symptoms**AU** : Hodgson, M**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 663-667 Suppl. 4 AUG 2002• **EPIDEMIOLOGIE**90. **TI** : The Po River Delta (North Italy) indoor epidemiological study: Effects of pollutant exposure on acute respiratory symptoms and respiratory function in adults**AU** : Simoni, M; Carrozzi, L; Baldacci, S; Scognamiglio, A; Di Pede, F; Sapigni, T; Viegi, G**SO** : ARCHIVES OF ENVIRONMENTAL HEALTH, 57 (2): 130-136 MAR-APR 2002**ARTICLE DE SYNTHÈSE**91. **TI** : How to describe indoor environment in epidemiological studies dealing with respiratory diseases**AU** : Clarisse, B; Seta, N; El Hasnaoui, A; Terrioux, P; Momas, I**SO** : REVUE D EPIDEMIOLOGIE ET DE SANTE PUBLIQUE, 50 (2): 179-200 APR 2002**ARTICLE DE SYNTHÈSE**92. **TI** : Epidemiologic evidence for asthma and exposure to air toxics: Linkages between occupational, indoor, and community air pollution research**AU** : Delfino, RJ**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 573-589 Suppl. 4 AUG 2002

ARTICLE DE SYNTHÈSE93. **TI**: Assessing exposure to air toxics relative to asthma**AU** : Weisel, CP**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 527-537 Suppl. 4 AUG 2002**III-3. Populations sensibles**

• **ENFANTS**94. **TI** : The effect of house dust mite sensitization on lung size and airway caliber in symptomatic and nonsymptomatic preadolescent children: A community-based study in Poland**AU** : Jedrychowski, W; Maugeri, U; Jedrychowska-Bianchi, I; Mroz, E**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (6): 571-574 JUN 200295. **TI** : Inhalant allergens as risk factors for the development and severity of mild-to-moderate asthma in Hong Kong Chinese children**AU** : Leung, TF; Lam, CWK; Chan, IHS; Li, AM; Ha, G; Tang, NLS; Fok, TF**SO** : JOURNAL OF ASTHMA, 39 (4): 323-330 200296. **TI** : Cockroach allergy and exposure to cockroach allergen in Polish children with asthma**AU** : Stelmach, I; Jerzynska, J; Stelmach, W; Majak, P; Chew, G; Gorski, P; Kuna, P**SO** : ALLERGY, 57 (8): 701-705 AUG 200297. **TI** : Indoor exposure to molds and allergic sensitization**AU** : Jacob, B; Ritz, B; Gehring, U; Koch, A; Bischof, W; Wichmann, HE; Heinrich, J; INGA-Study Grp**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (7): 647-653 JUL 200298. **TI** : Domestic exposure to formaldehyde significantly increases the risk of asthma in young children**AU** : Rumchev, KB; Spickett, JT; Bulsara, MK; Phillips, MR; Stick, SM**SO** : EUROPEAN RESPIRATORY JOURNAL, 20 (2): 403-408 AUG 2002**ARTICLE DE SYNTHÈSE**99. **TI** : Effects of environmental tobacco smoke on the respiratory health of children**AU** : Jaakkola, JJK; Jaakkola, MS**SO** : SCANDINAVIAN JOURNAL OF WORK ENVIRONMENT & HEALTH, 28: 71-83 Suppl. 2 2002**ARTICLE DE SYNTHÈSE**100. **TI** : Range-finding study of risk factors for childhood asthma development and national asthma prevalence**AU** : Bukowski, JA; Lewis, RJ; Gamble, JF; Wojcik, NC; Laumbach, RJ**SO** : HUMAN AND ECOLOGICAL RISK ASSESSMENT, 8 (4): 735-765 JUN 2002**ARTICLE DE SYNTHÈSE**101. **TI** : Relations between childhood asthma and environmental factors**AU** : Juchet, A; Chabbert-Broue, A; Piot, M**SO** : REVUE FRANCAISE D ALLERGOLOGIE ET D IMMUNOLOGIE CLINIQUE, 42 (4): 402-409 JUN 2002• **FEMMES ENCEINTES**102. **TI** : Residential pesticide use during pregnancy among a cohort of urban minority women**AU** : Whyatt, RM; Camann, DE; Kinney, PL; Reyes, A; Ramirez, J; Dietrich, J; Diaz, D; Holmes, D; Perera, FP**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (5): 507-514 MAY 2002103. **TI** : The influence of maternal exposure to volatile organic compounds on the cytokine secretion profile of neonatal T cells**AU** : Lehmann, I; Thoenke, A; Rehwagen, M; Rolle-Kampczyk, U; Schlink, U; Schulz, R; Borte, M; Diez, U; Herbarth, O**SO** : ENVIRONMENTAL TOXICOLOGY, 17 (3): 203-210 Sp. Iss. SI JUN 2002

104.**TI** : Indoor maternal smoking doubles adolescents' exhaled carbon monoxide
AU : Gourgoulianis, KI; Gogou, E; Hamos, V; Molyvdas, PA
SO : ACTA PAEDIATRICA, 91 (6): 712-713 2002

105.**TI**: Assessing the exposure of pregnant women to drinking water disinfection byproducts
AU : Barbone, F; Valent, F; Brussi, V; Tomasella, L; Triassi, M; Di Lieto, A; Scognamiglio, G; Righi, E; Fantuzzi, G; Casolari, L; Aggazzotti, G
SO: EPIDEMIOLOGY, 13 (5): 540-544 SEP 2002



IV- EVALUATION DES RISQUES

IV-1 Expologie

- EXPOSITION PAR SUBSTANCE

106.**TI** : Inhalation toxicokinetics of **p-dichlorobenzene** and daily absorption and internal accumulation in chronic low-level exposure to humans

AU : Yoshida, T; Andoh, K; Kosaka, H; Kumagai, S; Matsunaga, I; Akasaka, S; Nakamura, SI; Oda, H; Fukuhara, M

SO : ARCHIVES OF TOXICOLOGY, 76 (5-6): 306-315 JUN 2002

107.**TI** : **Chloroform**: Exposure estimation, hazard characterization, and exposure-response analysis

AU : Meek, ME; Beauchamp, R; Long, G; Moir, D; Turner, L; Walker, M

SO : JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART B-CRITICAL REVIEWS, 5 (3): 283-334 JUL-SEP 2002

108.**TI**: Apartment residents' and day care workers' exposures to **tetrachloroethylene** and deficits in visual contrast sensitivity

AU: Schreiber, JS; Hudnell, HK; Geller, AM; House, DE; Aldous, KM; Force, MS; Langguth, K; Prohonic, EJ; Parker, JC

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (7): 655-664 JUL 2002

- BIOMARQUEURS

109.**TI**: A molecular dosimetry approach to assess human exposure to environmental tobacco smoke in pubs

AU: Besaratinia, A; Maas, LM; Brouwer, EMC; Moonen, EJC; De Kok, TMCM; Wesseling, GJ; Loft, S; Kleijnans, JCS; Van Schooten, FJ

SO: CARCINOGENESIS, 23 (7): 1171-1176 JUL 2002

ARTICLE DE SYNTHÈSE

110.**TI** : A review of the USEPA's single breath canister (SBC) method for exhaled volatile organic biomarkers

AU : Lindstrom, AB; Pleil, JD

SO : BIOMARKERS, 7 (3): 189-208 MAY-JUN 2002

ARTICLE DE SYNTHÈSE

111.**TI** : Biomarkers and chemosensory irritations

AU : Norback, D; Wieslander, G

SO : INTERNATIONAL ARCHIVES OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH, 75 (5): 298-304 JUN 2002

- ETUDES D'EXPOLOGIE

112.**TI** : A model for evaluating the population exposure to ambient air pollution in an urban area

AU : Kousa, A; Kukkonen, J; Karppinen, A; Aarnio, P; Koskentalo, T

SO : ATMOSPHERIC ENVIRONMENT, 36 (13): 2109-2119 MAY 2002

113.**I**: Air quality monitoring and personal exposure of children to NO₂ and fine particles

AU : Gauvin, S; Zmirou, D; Le Moullec, Y; Cassadou, S; Lauvergne, N; Reungoat, P; Vestri, V; Momas, I

SO : REVUE D EPIDEMIOLOGIE ET DE SANTE PUBLIQUE, 50 (3): 307-319 JUN 2002

114.**TI**: An analysis of factors that influence personal exposure to nitrogen oxides in residents of Richmond, Virginia

AU : Zipprich, JL; Harris, SA; Fox, JC; Borzelleca, JF

SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRON. EPIDEMIOLOGY, 12 (4): 273-285, JUL 2002

115.**TI**: Personal exposure of Paris office workers to nitrogen dioxide and fine particles

AU : Mosqueron, L; Momas, I; Le Moullec, Y

SO: OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 59 (8): 550-555 AUG 2002

116.**TI**: Source apportionment of exposures to volatile organic compounds. I. Evaluation of receptor models using simulated exposure data

AU: Shelly L. Miller, , Melissa J. Anderson, Eileen P. Daly and Jana B. Milford

SO: Atmospheric Environment Volume 36, Issue 22, August 2002, Pages 3629-3641

117.**TI**: Source apportionment of exposures to volatile organic compounds: II. Application of receptor models to TEAM study data

AU: Anderson, MJ; Daly, EP; Miller, SL; Milford, JB

SO: ATMOSPHERIC ENVIRONMENT, 36 (22): 3643-3658 AUG 2002

118.**TI**: Exposures to multiple air toxics in New York City

AU: Kinney, PL; Chillrud, SN; Ramstrom, S; Ross, J; Spengler, JD

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 539-546 Suppl. 4 AUG 2002

IV-2 Evaluation des risques

Aucun article

V- GESTION

119.**TI** : Electrostatic targeting for allergen removal and pest control applications

AU : Hughes, JF; Gaunt, LF; Gaynor, PT

SO : JOURNAL OF ELECTROSTATICS, 55 (3-4): 237-245 JUL 2002

120.**TI** : Photocatalytic destruction of VOCs for in-vehicle air cleaning

AU : Jo, WK; Park, JH; Chun, HD

SO : JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, 148 (1-3): 109-119 Sp..
SI MAY 31 2002

121.**TI** : Photocatalytic oxidation of volatile organic compounds using fluorescent visible light

AU : Chapuis, Y; Kivana, D; Guy, C; Kirchnerova, J

SO : JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 52 (7): 845-854 JUL 2002

122.**TI** : Case study of sub-slab depressurization for a building located over VOC-contaminated ground

AU : Rydock, JP; Skaret, E

SO : BUILDING AND ENVIRONMENT, 37 (12): 1343-1347 DEC 2002

123.**TI** : The effect of cleanliness control during installation work on the amount of accumulated dust in ducts of new HVAC installations

AU : Holopainen, R; Tuomainen, M; Asikainen, V; Pasanen, P; Sateri, J; Seppanen, O

SO : INDOOR AIR, 12 (3): 191-197 SEP 2002

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

124. **TI**: Characterization of emissions from **burning incense**

AU: Jetter, JJ; Guo, ZS; McBrian, JA; Flynn, MR

SO: SCIENCE OF THE TOTAL ENVIRONMENT, 295 (1-3): 51-67 AUG 5 2002

125. **TI**: **Fragrance**: emerging health and environmental concerns

AU: Bridges, B

SO: FLAVOUR AND FRAGRANCE JOURNAL, 17 (5): 361-371 SEP-OCT 2002

126. **TI**: Indoor air pollution (excluding allergens)

AU: Squinazi, F

SO: REVUE FRANCAISE D ALLERGOLOGIE ET D IMMUNOLOGIE CLINIQUE, 42 (3): 248-255 APR 2002

127. **TI**: Bilan des études françaises sur la mesure de la qualité de l'air à l'intérieur des bâtiments (1990-2001)

AU: Luc MOSQUERON, S. KIRCHNER, Vincent NEDELLEC

SO: Environnement, Risques & Santé. Vol. 1, Numéro 1, Mars - Avril 2002 : 31-41

128. **TI**: The use of the environmental control unit to study indoor air pollution

AU: Rea, WJ; Pan, YQ

SO: DIMENSIONS OF POLLUTION, VOL 1, 104-114 2002

129. **TI**: Inter-comparison of air pollutant concentrations in different indoor environments in Hong Kong

AU: Lee, SC; Guo, H; Li, WM; Chan, LY

SO: ATMOSPHERIC ENVIRONMENT, 36 (12): 1929-1940 APR 2002

• **AIR INTERIEUR ET SANTE ENVIRONNEMENTALE**

130. **TI**: Environmental agents as cause of health disorders in children presented at an outpatient unit of environmental medicine

AU: Wiesmuller, GA; Weishoff-Houben, M; Brotsch, O; Dott, W; Schulze-Robbecke, R

SO: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 205 (5): 329-335 JUL 2002

131. **TI**: The role of environmental factors in medically unexplained symptoms and related syndromes: Conference summary and recommendations

AU: Kipen, HM; Fiedler, N

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 591-595 Suppl. 4 AUG 2002

132. **TI**: Environmental factors in medically unexplained symptoms and related syndromes: The evidence and the challenge

AU: Kipen, HM; Fiedler, N

SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 597-599 Suppl. 4 AUG 2002

----- FIN VEILLE SCIENTIFIQUE 3^{ème} trimestre 2002 -----

BILAN DES ARTICLES DE SYNTHÈSE (21)**TI** : Passive sampling**AU** : Gorecki, T; Namiesnik, J**SO** : TRAC-TRENDS IN ANALYTICAL CHEMISTRY, 21 (4): 276-291 APR 2002**TI**: Ventilation rates and health**AU**: Seppanen, O; Fisk, WJ; Mendell, MJ**SO** : ASHRAE JOURNAL, 44 (8): 56-58 AUG 2002**TI** : The precautionary principle applied to lung cancer risk caused by residential radon**AU** : de Brouwer, C; Lagasse, R**SO** : REVUE D EPIDEMIOLOGIE ET DE SANTE PUBLIQUE, 50 (2): 147-157 APR 2002**TI** : Residential radon exposure and lung cancer: Risk in nonsmokers**AU** : Neuberger, JS; Gesell, TF**SO** : HEALTH PHYSICS, 83 (1): 1-18 JUL 2002**TI** : Effects of environmental tobacco smoke on the respiratory health of adults**AU** : Jaakkola, MS; Jaakkola, JJK**SO** : SCANDINAVIAN JOURNAL OF WORK ENVIRONMENT & HEALTH, 28: 52-70 Suppl. 2 2002**TI** : Revisiting the Association between Environmental Tobacco Smoke Exposure and Lung Cancer Risk
V. Overall Conclusions**AU** : Peter N. Lee, John S. Fry, Barbara Forey**SO** : Indoor and Built Environment 11:2:2002, 59-82.**TI** : The toxicology of inhaled woodsmoke**AU** : Zelikoff, JT; Chen, LC; Cohen, MD; Schlesinger, RB**SO** : JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART B-CRITICAL REVIEWS, 5 (3): 269-282 JUL-SEP 2002**TI** : Association of ventilation system type with SBS symptoms in office workers**AU** : O. Seppänen , W. J. Fisk**SO** : Indoor Air 12(2) ; 2002**TI** : Ventilation and health in non-industrial indoor environments: report from a European Multidisciplinary Scientific Consensus Meeting (EUROVEN)**AU** : P. Wargocki, J. Sundell, W. Bischof, G. Brundrett, P. O. Fanger, F. Gyntelberg, S. O. Hanssen, P. Harrison, A. Pickering, O. Seppänen, P. Wouters**SO** : Indoor Air 12(2) ; 2002**TI** : Indoor environmental exposures and symptoms**AU**: Hodgson, M**SO**: ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 663-667 Suppl. 4 AUG 2002**TI** : How to describe indoor environment in epidemiological studies dealing with respiratory diseases**AU** : Clarisse, B; Seta, N; El Hasnaoui, A; Terrioux, P; Momas, I**SO** : REVUE D EPIDEMIOLOGIE ET DE SANTE PUBLIQUE, 50 (2): 179-200 APR 2002**TI** : Epidemiologic evidence for asthma and exposure to air toxics: Linkages between occupational, indoor, and community air pollution research**AU**: Delfino, RJ**SO**: ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 573-589 Suppl. 4 AUG 2002**TI** : Assessing exposure to air toxics relative to asthma**AU** : Weisel, CP**SO** : ENVIRONMENTAL HEALTH PERSPECTIVES, 110: 527-537 Suppl. 4 AUG 2002

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- TI** : Relations between childhood asthma and environmental factors
AU : Juchet, A; Chabbert-Broue, A; Piot, M
SO : Revue Francaise d'Allergologie et d'Immunologie Clinique, 42 (4): 402-409 JUN 2002
- TI** : A review of the USEPA's single breath canister (SBC) method for exhaled volatile organic biomarkers
AU : Lindstrom, AB; Pleil, JD
SO : BIOMARKERS, 7 (3): 189-208 MAY-JUN 2002
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AU : Luc MOSQUERON, S. KIRCHNER, Vincent NEDELLEC
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