



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2003 – 3^{ème} et 4^{ème} trimestres

146 articles ont été répertoriés pendant la période du 1^{er} juillet au 18 novembre 2003.

Les articles sont classés selon les chapitres suivants :

I- SUBSTANCES

- I-1. Gaz inorganiques (radon, O₃, NO_x, CO)
- I-2. Composés Organiques Volatils et Composés Organiques 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'apparaît 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** : Calibration of diffusion barrier charcoal detectors and application to radon sampling in dwellings
AU : Cabrera, MEM; Sujo, LC; Villalba, L; Peinado, JS; Jimenez, AC; Baca, AM; Gandara, SD; Villalobos, MR; Miranda, AL; Peraza, EFH
SO : REVISTA MEXICANA DE FISICA, 49 (5): 457-464 OCT 2003

2. **TI** : Natural radiation exposure in the vicinity of Spanish nuclear power stations
AU : Poncela, LSQ; Navarro, PLF; Arozamena, JG; Palomino, CR; Sainz, C; Matarranz, JLM; Arteche, J
SO : HEALTH PHYSICS, 85 (5): 594-598 NOV 2003

3. **TI** : The weekly measurement deviations of indoor radon concentration from the annual arithmetic mean
AU : Dolejs, J; Hulka, J
SO : RADIATION PROTECTION DOSIMETRY, 104 (3): 253-258 2003

- NO₂, O₃

4. **TI** : Sources and concentrations of indoor nitrogen dioxide in Barcelona, Spain
AU : Garcia-Algar, O; Zapater, M; Figueroa, C; Vall, O; Basagana, X; Sunyer, J; Freixa, A; Guardino, X; Pichini, S
SO : JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 53 (11): 1312-1317 NOV 2003

I-2. COV, COSEMI-VOLATILS

5. **TI** : Sorption of volatile organic compounds on typical carpet fibers
AU : Elkilani, AS; Baker, CGJ; Al-Shammari, QH; Bouhamra, WS
SO : ENVIRONMENT INTERNATIONAL, 29 (5): 575-585 AUG 2003

6. **TI** : Effects of substrate parameters on the emissions of volatile organic compounds from wet coating materials
AU : Zhang, LZ; Niu, JL
SO : BUILDING AND ENVIRONMENT, 38 (7): 939-946 JUL 2003

7. **TI** : The impact of VOC mixture, film thickness and substrate on adsorption/desorption characteristics of some building materials
AU : Popa, J; Haghghat, F
SO : BUILDING AND ENVIRONMENT, 38 (7): 959-964 JUL 2003

8. **TI** : Indoor aldehydes: measurement of contamination levels and identification of their determinants in Paris dwellings
AU : Clarisse, B; Laurent, AM; Seta, N; Le Moullec, Y; El Hasnaoui, A; Momas, I
SO : ENVIRONMENTAL RESEARCH, 92 (3): 245-253 JUL 2003

9. **TI** : An improved mass transfer based model for analyzing VOC emissions from building materials
SO : Atmospheric Environment Volume 37, Issue 18, June 2003, Pages 2497-2505
AU : Ying Xu and Yinping Zhang,

10. **TI**: Building materials VOC emissions - a systematic parametric study
SO : Huang, HY; Haghghat, F
SO : BUILDING AND ENVIRONMENT, 38 (8): 995-1005 AUG 2003
11. **TI** : Development of a preconcentration unit for a SAW sensor micro array and its use for indoor air quality monitoring
AU : Bender, F; Barie, N; Romoudis, G; Voigt, A; Rapp, A
SO :SENSORS AND ACTUATORS B-CHEMICAL, 93 (1-3): 135-141 AUG 1 2003
12. **TI**: Concentrations of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) in vacuum cleaner dust collected in Japanese homes
AU : Moriwaki, H; Takata, Y; Arakawa, R
SO :JOURNAL OF ENVIRONMENTAL MONITORING, 5 (5): 753-757 SEP 2003
13. **TI** : Characteristics and correlations of VOC emissions from building materials
AU : Zhang, YP; Xu, Y
SO : INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, 46 (25): 4877-4883 DEC 2003
14. **TI** : Sensory evaluation of emissions from selected building products exposed to ozone
AU : Knudsen, HN; Nielsen, PA; Clausen, PA; Wilkins, CK; Wolkoff, P
SO : INDOOR AIR, 13 (3): 223-231 SEP 2003
15. **TI** : Seasonal cycle of VOCs in apartments
AU : Rehwagen, M; Schlink, U; Herbarth, O
SO : INDOOR AIR, 13 (3): 283-291 SEP 2003
16. **TI** : Comparison of the substrate effect on VOC emissions from water based varnish and latex paint
AU : Silva, GV; Vasconcelos, MTSD; Santos, AM; Fernandes, EO
SO : ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 10 (4): 209-216 2003
17. **TI** : Mosquito coil emissions and health implications
AU : Liu, WL; Zhang, JF; Hashim, JH; Jalaludin, J; Hashim, Z; Goldstein, BD
SO : ENVIRONMENTAL HEALTH PERSPECTIVES, 111 (12): 1454-1460 SEP 2003
18. **TI** : The development of low volatile organic compound emission house - a case study
AU : Guo, H; Murray, F; Lee, SC
SO : BUILDING AND ENVIRONMENT, 38 (12): 1413-1422 DEC 2003

- **HAP**

19. **TI** : Health Risk of Residential Exposure to Polycyclic Aromatic Hydrocarbons
AU : Brender, JD; Pichette, JL; Suarez, L; Hendricks, KA; Holt, M
SO : ARCHIVES OF ENVIRONMENTAL HEALTH, 58 (2): 111-118 FEB 2003
20. **TI** : Using radiocarbon to apportion sources of polycyclic aromatic hydrocarbons in household soot
AU : Reddy, CM; Xu, L; O'Connor, R
SO : ENVIRONMENTAL FORENSICS, 4 (3): 191-197 SEP 2003

ARTICLE DE SYNTHÈSE

21. **TI** : Naphthalene - an environmental and occupational toxicant
AU : Preuss, R; Angerer, J; Drexler, H
SO : INT ARCHIVES OF OCC AND ENVIRONMENTAL HEALTH, 76 (8): 556-576 OCT 2003

- **Retardateurs de flamme**

22. **TI** : Screening of organophosphorus compounds and their distribution in various indoor environments
AU : Marklund, A; Andersson, B; Haglund, P
SO : CHEMOSPHERE, 53 (9): 1137-1146 DEC 2003

23. **TI** : Phthalates, alkylphenols, pesticides, polybrominated diphenyl ethers, and other endocrine-disrupting compounds in indoor air and dust
AU : Rudel, RA; Camann, DE; Spengler, JD; Korn, LR; Brody, JG
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (20): 4543-4553 OCT 15 2003

I-3. Particules

24. **TI** : Receptor modeling of ambient and personal exposure samples: 1998 Baltimore Particulate Matter Epidemiology-Exposure Study
AU : Hopke, PK; Ramadan, Z; Paatero, P; Norris, GA; Landis, MS; Williams, RW; Lewis, CW
SO : ATMOSPHERIC ENVIRONMENT, 37 (23): 3289-3302 JUL 2003

25. **TI** : Characteristics of particle number and mass concentrations in residential houses in Brisbane, Australia
AU : Morawska, L; He, CR; Hitchins, J; Mengersen, K; Gilbert, D
SO : ATMOSPHERIC ENVIRONMENT, 37 (30): 4195-4203 SEP 2003

26. **TI** : Emissions from heated indoor dust: an approach for sample preparation and in vitro toxicity testing
AU : Mathiesen, M; Pedersen, EK; Urfjell, B; Bjorseth, O; Syversen, T
SO : ATMOSPHERIC ENVIRONMENT, 37 (31): 4345-4352 OCT 2003

27. **TI** : Comparison of a passive aerosol sampler to size-selective pump samplers in indoor environments
AU : Wagner, J; Macher, JM
SO : AIHA JOURNAL, 64 (5): 630-639 SEP-OCT 2003

I-4. Biocontaminants

28. **TI** : Mycotoxin production by indoor molds
AU : Nielsen, KF
SO : FUNGAL GENETICS AND BIOLOGY, 39 (2): 103-117 JUL 2003

29. **TI** : Low flow, long-term air sampling under normal domestic activity to measure house dust mite and cockroach allergens
AU : Park, JW; Kim, CW; Kang, DB; Lee, IY; Choi, SY; Yong, TS; Shin, DC; Kim, KE; Hong, CS
SO : J OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY, 12 (4): 293-298 2002

30. **TI** : Four methods of sampling for dust mite allergen: differences in 'dust'
AU : Tovey, ER; Mitakakis, TZ; Sercombe, JK; Vanlaar, CH; Marks, GB
SO : ALLERGY, 58 (8): 790-794 AUG 2003

31. **TI** : Bioaerosol Data Distribution: Probability and Implications for Sampling in Evaluating Problematic Buildings
AU : R. Christopher Spicer ; Harry J. Gangloff
SO : Applied Occupational and Environmental Hygiene Volume: 18 Number: 8 Page: 584 -- 590

32. **TI** : A pilot investigation into associations between indoor airborne fungal and non-biological particle concentrations in residential houses in Brisbane, Australia
AU : Hargreaves, M; Parappukkaran, S; Morawska, L; Hitchins, J; He, CR; Gilbert, D
SO : SCIENCE OF THE TOTAL ENVIRONMENT, 312 (1-3): 89-101 AUG 1 2003

33. **TI** : Volatile metabolites from indoor molds grown on media containing wood constituents
AU : Wilkins, K; Larsen, K; Simkus, M
SO : ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 10 (4): 206-208 2003

34. **TI** : Time and space uniformity of indoor bacteria concentrations in Chicago area residences
AU : Moschandreas, DJ; Pagilla, KR; Storino, LV
SO : AEROSOL SCIENCE AND TECHNOLOGY, 37 (11): 899-906 NOV 2003

35. **TI** : Focus on cat allergen (Fel d 1): Immunological and aerodynamic characteristics, modality of airway sensitisation and avoidance strategies

AU : Liccardi, G; D'Amato, G; Russo, M; Canonica, GW; D'Amato, L; De Martino, M; Passalacqua, G

SO : INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, 132 (1): 1-12 SEP 2003

36. **TI** : Residential characteristics predict changes in Der p 1, Fel d 1 and ergosterol but not fungi over time

AU : Matheson, MC; Dharmage, SC; Forbes, AB; Raven, JM; Woods, RK; Thien, FCK; Guest, DI; Rolland, JM; Walters, EH; Abramson, MJ

SO : CLINICAL AND EXPERIMENTAL ALLERGY, 33 (9): 1281-1288 SEP 2003

ARTICLE DE SYNTHÈSE

37. **TI** : Toxic mold: phantom risk vs science

AU : Chapman, JA; Terr, AI; Jacobs, RL; Charlesworth, EN; Bardana, EJ

SO : ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 91 (3): 222-232 SEP 2003

ARTICLE DE SYNTHÈSE

38. **TI** : Indoor health: Background levels of fungi

AU : Gots, RE; Layton, NJ; Pirages, SW

SO : AIHA JOURNAL, 64 (4): 427-438 JUL-AUG 2003

I-5. Pesticides

39. **TI**: Biocides in the indoor environment: Correlation of saturation vapor pressure and test chamber experiments for estimation of concentrations in indoor air

AU : Muller, MG; Cammenga, HK; Salthammer, T; Uhde, E

SO : FRESINIUS ENVIRONMENTAL BULLETIN, 12 (6): 497-502 2003

I-6. Métaux lourds

Pas d'article

I-7. Fumée de tabac environnementale

40. **TI** : The effects of smoking status and ventilation on environmental tobacco smoke concentrations in public areas of UK pubs and bars

AU: Joanna Carrington, Adrian F. R. Watson and Ivan L. Gee,

SO : Atmospheric Environment Volume 37, Issue 23 , July 2003, Pages 3255-3266

41. **TI** : Exposure to environmental tobacco smoke in restaurants without separate ventilation systems for smoking and nonsmoking dining areas

AU : Akbar-Khanzadeh, F

SO : ARCHIVES OF ENVIRONMENTAL HEALTH, 58 (2): 97-103 FEB 2003



II- LIEUX DE VIE

II-1. Habitat privé

Aucun article

II-2. Transports

42. **TI** : Indoor–outdoor air quality relationships in vehicle: effect of driving environment and ventilation modes

AU : Andy T. Chan, and Michael W. Chung

SO : Atmospheric Environment Volume 37, Issue 27 , September 2003, Pages 3795-3808

43. **TI**: Commuter exposure and indoor–outdoor relationships of carbon oxides in buses in Hong Kong

AU : Andy T. Chan

SO: Atmospheric Environment Volume 37, Issue 27 , September 2003, Pages 3809-3815

44. **TI**: Indoor Air Quality and Occupational Exposures at a Bus Terminal

AU: Mutasem El-Fadel ; Nisrine El-Hougeiri

SO: Applied Occupational and Environmental Hygiene Volume: 18 Number: 7 Page: 513 -- 522

45. **TI** : Characterisation of particle emissions from the driving car fleet and the contribution to ambient and indoor particle concentrations

AU : Palmgren, F; Wahlin, P; Kildeso, J; Afshari, A; Fogh, CL

SO : PHYSICS AND CHEMISTRY OF THE EARTH, 28 (8): 327-334 2003

46. **TI** : Measurements of volatile organic compounds inside automobiles

AU : Fedoruk, MJ; Kerger, BD

SO : J. OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (1): 31-41 JAN 2003

ARTICLE DE SYNTHÈSE

47. **TI** : A critical review of reported air concentrations of organic compounds in aircraft cabins

AU : Nagda, NL; Rector, HE

SO : INDOOR AIR, 13 (3): 292-301 SEP 2003

ARTICLE DE SYNTHÈSE

48. **TI** : Airborne infection control in health care facilities

AU : Kuehn, TH

SO : J OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, 125 (3): 366-371AUG 2003

II-3. Autres lieux de vie

- **Ecoles**

49. **TI** : "Breathing freely" in schools - Results and model approaches concerning the air quality in classrooms

AU : Grams, H; Hehl, O; Dreesman, J

SO : GESUNDHEITSWESEN, 65 (7): 447-456 JUL 2003

- **Restaurants**

50. **TI** : An international survey of indoor air quality, ventilation, and smoking activity in restaurants: a pilot study

AU : Bohanan, HR; Piade, JJ; Schorp, MK; Saint-Jalm, Y

SO : JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (5): 378-392 SEP 2003

- **Cabinets de dentiste**

51. **TI** : Indoor environment quality in dental clinics: Potential concerns from particulate matter

AU : Godwin, CC; Batterman, SA; Sahni, SP; Peng, CY

SO : AMERICAN JOURNAL OF DENTISTRY, 16 (4): 260-266 AUG 2003

- **Parkings souterrains**

52. **TI** : Air quality in an underground garage: computational and experimental investigation of ventilation effectiveness

AU : Papakonstantinou, K; Chaloulakou, A; Duci, A; Vlachakis, N; Markatos, N

SO : ENERGY AND BUILDINGS, 35 (9): 933-940 OCT 2003

53. **TI** : Occupational exposure to BTEX of workers in car parkings and gasoline service stations in Athens, Greece

AU : Soldatos, AP; Bakeas, EB; Siskos, PA

SO : FRESenius ENVIRONMENTAL BULLETIN, 12 (9): 1064-1070 2003

- **Musées**

54. **TI** : Environmental parameters in museums

AU : Pavlogeorgatos, G

SO : BUILDING AND ENVIRONMENT, 38 (12): 1457-1462 DEC 2003

- **Salles de sport**

55. **TI** : Determination of aerial microbiological contamination in scholastic sports environments

AU : Dacarro, C; Picco, AM; Grisoli, P; Rodolfi, M

SO : JOURNAL OF APPLIED MICROBIOLOGY, 95 (5): 904-912 2003

II-4. Ventilation

56. **TI** : A balance-point method for assessing the effect of natural ventilation on indoor particle concentrations

AU : Li, YG; Chen, ZD

SO : ATMOSPHERIC ENVIRONMENT, 37 (30): 4277-4285 SEP 2003

57. **TI** : The outdoor air ventilation rate in high-rise residences employing room air conditioners

AU : Lin, ZP; Deng, SM

SO : BUILDING AND ENVIRONMENT, 38 (12): 1389-1399 DEC 2003

II-5. Modélisation

58. **TI** : Determination of tobacco smoking influence on volatile organic compounds constituent by indoor tobacco smoking simulation experiment

SO : Atmospheric Environment Volume 37, Issue 24, August 2003, Pages 3365-3374

AU : Juexin Xie, Xingming Wang, Guoying Sheng, Xinhui Bi and Jiamo Fu,

59. **TI** : Responding to sudden pollutant releases in office buildings: 1. Framework and analysis tools
AU : Sohn, MD; Sextro, RG; Gadgil, AJ; Daisey, JM
SO : INDOOR AIR, 13 (3): 267-276 SEP 2003
60. **TI** : Assessment of contaminant diffusivities in building materials from porosimetry tests
AU : Blondeau, P; Tiffonnet, AL; Damian, A; Amiri, O; Molina, JL
SO : INDOOR AIR, 13 (3): 302-310 SEP 2003
61. **TI** : Dynamic evaluation of airflow rates for a variable air volume system serving an open-plan office
AU : Mai, HKW; Chan, DWT; Burnett, J
SO : INDOOR AIR, 13 (3): 311-312 SEP 2003
62. **TI** : Single-layer model to predict the source/sink behavior of diffusion-controlled building materials
AU : Kumar, D; Little, J
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (17): 3821-3827 SEP 1 2003
63. **TI** : Measurement and simulation of indoor air quality and energy consumption in two Shanghai office buildings with variable air volume systems
AU : Pan, YQ; Zhou, H; Huang, ZH; Zeng, Y; Long, WD
SO : ENERGY AND BUILDINGS, 35 (9): 877-891 OCT 2003
64. **TI** : Analytical solutions to compartmental indoor air quality models with application to environmental tobacco smoke concentrations measured in a house
AU : Ott, WR; Klepeis, NE; Switzer, P
SO : JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 53 (8): 918-936 AUG 2003
65. **TI** : Integrated IAQ model for prediction of VOC emissions from building materials
AU : Fariborz Haghghat and Hongyu Huang
SO : Building and Environnement, 38(8), Aout 2003
66. **TI** : Comparison of indoor aerosol particle concentration and deposition in different ventilated rooms by numerical method
AU : Zhao, B; Zhang, Y; Li, XT; Yang, XD; Huang, DT
SO : BUILDING AND ENVIRONMENT, 39 (1): 1-8 JAN 2004

II-6. Air extérieur – Air intérieur

67. **TI** : Size-dependent PM10 indoor/outdoor/personal relationships for a wind-induced naturally ventilated airspace
SO: Atmospheric Environment Volume 37, Issue 22 , July 2003, Pages 3065-3075
AU : Chung-Min Liao, , Jein-Wen Chen and Su-Jui Huang
68. **TI** : Indoor and outdoor carbon monoxide concentration relationships at different microenvironments in the Athens area
AU : Chaloulakou, A; Mavroidis, I; Duci, A
SO : CHEMOSPHERE, 52 (6): 1007-1019 AUG 2003
69. **TI**: Penetration coefficient and deposition rate as a function of particle size in non-smoking naturally ventilated residences
AU : Chao, CYH; Wan, MP; Cheng, ECK
SO : ATMOSPHERIC ENVIRONMENT, 37 (30): 4233-4241 SEP 2003
70. **TI** : Averaging periods for indoor-outdoor ratios of pollution in naturally ventilated non-domestic buildings near a busy road
AU : Ni Riain, CM; Mark, D; Davies, M; Harrison, RM; Byrne, MA
SO : ATMOSPHERIC ENVIRONMENT, 37 (29): 4121-4132 SEP 2003

71. **TI** : Use of real-time light scattering data to estimate the contribution of infiltrated and indoor-generated particles to indoor air

AU : Allen, R; Larson, T; Sheppard, L; Wallace, L; Liu, LJS

SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (16): 3484-3492 AUG 15 2003

72. **TI** : Indoor-outdoor relationship of suspended particulate matter and its chemical composition at different sizes

AU : El-Abssawy, AA

SO : INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, 19 (6): 615-634 2003

73. **TI** : Use of time- and chemically resolved particulate data to characterize the infiltration of outdoor PM_{2.5} into a residence in the San Joaquin Valley

AU : Lunden, MM; Thatcher, TL; Hering, SV; Brown, NJ

SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (20): 4724-4732 OCT 15 2003



III- EFFETS SANITAIRES

III-1. Effets chez l'animal

74. **TI** : Repeated exposure to isoprene oxidation products causes enhanced respiratory tract effects in multiple murine strains

AU : Rohr, AC; Shore, SA; Spengler, JD

SO : INHALATION TOXICOLOGY, 15 (12): 1191-1207 OCT 2003

III-2. Effets chez l'homme

- Radon

75. **TI** : Seasonal correction factors for estimating radon exposure in dwellings in France

AU : Baysson, H; Billon, S; Laurier, D; Rogel, A; Tirmarche, M

SO : RADIATION PROTECTION DOSIMETRY, 104 (3): 245-252 2003

76. **TI** : Residential radon and risk of lung cancer in Eastern Germany

AU : Kreuzer, M; Heinrich, J; Wolke, G; Rosario, AS; Gerken, M; Wellmann, J; Keller, G; Kreienbrock, L; Wichmann, HE

SO : EPIDEMIOLOGY, 14 (5): 559-568 SEP 2003

77. **TI** : Indoor concentrations of natural radioactivity and the impact to human health

AU : Vosniakos, F; Zavlaris, K; Papaliagas, T

SO : FRESENIUS ENVIRONMENTAL BULLETIN, 12 (7): 680-682 2003

78. **TI** : Comparison of radon exposure assessment results: Po-210 surface activity on glass objects vs. contemporary air radon concentration

AU : Bochicchio, F; McLaughlin, JP; Walsh, C

SO : RADIATION MEASUREMENTS, 36 (1-6): 211-215 Sp. Iss. SI SEP 2003

79. **TI** : Quality assurance program for LR 115 based radon concentration measurements in a case-control study: description and results

AU : Bochicchio F., Forastiere, F. Farchi, S. Marocco, D. Quarto, M. Sera, F.

SO : Radiation Measurements, 36(1-6), 205-210, Sept 2003

80. **TI** : Meta-analysis of residential exposure to radon gas and lung cancer

AU : Pavia, M; Bianco, A; Pileggi, C; Angelillo, IF

SO : BULLETIN OF THE WORLD HEALTH ORGANIZATION, 81 (10): 732-738 2003

81. **TI** : Studies of radon and lung cancer in North America and China

AU : Lubin

SO : RADIATION PROTECTION DOSIMETRY, 104 (4): 315-319 2003

82. **TI** : Health effects of residential radon: A european perspective at the end of 2002

AU : Darby, SC; Hill, DC; European Collaborative Grp Reside

SO : RADIATION PROTECTION DOSIMETRY, 104 (4): 321-329 2003

- CO

83. **TI** : Carbon monoxide and COHb concentration in blood in various circumstances

AU : Modic, J

SO : ENERGY AND BUILDINGS, 35 (9): 903-907 OCT 2003

- **Biocontaminants**

84. **TI** : Sensitization to cat allergens in non-cat owner patients with respiratory allergy
AU : Gulbahar, O; Sin, A; Mete, N; Kokuludag, A; Kirmaz, C; Sebik, F
SO : ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 90 (6): 635-639 JUN 2003

85. **TI** : Control of exposure to mite allergen and allergen-impermeable bed covers for adults with asthma
AU : Woodcock, A; Forster, L; Matthews, E; Martin, J; Letley, L; Vickers, M; Britton, J; Strachan, D; Howarth, P; Altmann, D; Frost, C; Custovic, A; Med Res Council Gen Practice Res
SO : NEW ENGLAND JOURNAL OF MEDICINE, 349 (3): 225-236 JUL 17 2003

86. **TI** : Risk of indoor airborne infection transmission estimated from carbon dioxide concentration
AU : Rudnick, SN; Milton, DK
SO : INDOOR AIR, 13 (3): 237-245 SEP 2003

87. **TI** : Exposition and sensitisation to indoor allergens, house dust mite allergen and cat allergens
AU : Jovanovic, S; Felder-Kennel, A; Gabrio, T; Kourou, B; Link, B; Maisner, V; Piechotowski, I; Schick, KH; Schrimpf, M; Schwenk, M; Weidner, U; Zollner, I
SO : GESUNDHEITSWESSEN, 65 (7): 457-463 JUL 2003

88. **TI** : The prevalence of rat allergen in inner-city homes and its relationship to sensitization and asthma morbidity
AU : Perry, T; Matsui, E; Merriman, B; Duong, T; Eggleston, P
SO : JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 112 (2): 346-352 AUG 2003

89. **TI** : Exposure and sensitization to indoor allergens: Association with lung function, bronchial reactivity, and exhaled nitric oxide measures in asthma
AU : Langley, SJ; Goldthorpe, S; Craven, M; Morris, J; Woodcock, A; Custovic, A
SO : JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 112 (2): 362-368 AUG 2003

90. **TI** : Invited commentary: Is indoor mold exposure a risk factor for asthma?
AU : Douwes, J; Pearce, N
SO : AMERICAN JOURNAL OF EPIDEMIOLOGY, 158 (3): 203-206 AUG 1 2003
AB : Pas d'abstract

ARTICLE DE SYNTHÈSE

91. **TI** : Stachybotrys chartarum: cause of human disease or media darling?
AU : Miller, JD; Rand, TG; Jarvis, BB
SO : MEDICAL MYCOLOGY, 41 (4): 271-291 AUG 2003

ARTICLE DE SYNTHÈSE

92. **TI** : Health Effects of Indoor Fungal Bioaerosol Exposure
AU : Frederick Fung ; William G. Hughson
SO : Applied Occupational and Environmental Hygiene Volume: 18 Number: 7 Page: 535 -- 544

- **SBS**

93. **TI** : Ocular, nasal, dermal and respiratory symptoms in relation to heating, ventilation, energy conservation, and reconstruction of older multi-family houses
AU : Engvall, K; Norrby, C; Norback, D
SO : INDOOR AIR, 13 (3): 206-211 SEP 2003

94. **TI** : Symptoms prevalence among office employees and associations to building characteristics
AU : Skyberg, K; Skulberg, KR; Eduard, W; Skaret, E; Levy, F; Kjuus, H
SO : INDOOR AIR, 13 (3): 246-252 SEP 2003

95. **TI** : The work environment and workers' health in four large office buildings
AU : Chao, HJ; Schwartz, J; Milton, DK; Burge, HA
SO : ENVIRONMENTAL HEALTH PERSPECTIVES, 111 (9): 1242-1248 JUL 2003

96. **TI** : The context of a study influences the reporting of symptoms
AU : Brauer, C; Mikkelsen, S
SO : INT ARCHIVES OF OCC AND ENVIRONMENTAL HEALTH, 76 (8): 621-624 OCT 2003

97. **TI** : Are syndromes in environmental medicine variants of somatoform disorders?
AU : Wiesmuller, GA; Ebel, H; Hornberg, C; Kwan, O; Friel, J
SO : MEDICAL HYPOTHESES, 61 (4): 419-430 OCT 2003

ARTICLE DE SYNTHÈSE

98. **TI** : The sick building syndrome (SBS)
AU : Ezratty, V
SO : PRESSE MEDICALE, 32 (33): 1572-1579 OCT 11 2003

• **Fumée de tabac environnementale**

99. **TI** : Association between exposure to workplace secondhand smoke and reported respiratory and sensory symptoms: Cross-sectional study
AU : Wakefield, M; Trotter, L; Cameron, M; Woodward, A; Inglis, G; Hill, D
SO : JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 45 (6): 622-627 JUN 2003

• **Asthme**

100. **TI** : Factors predicting the severity and the degree of symptom control of asthma in a recently diagnosed cohort of adult patients (ASMA study)
AU : Segala, C; Soussan, D; Priol, G; Lepage, T; Martinat, Y; Rogeaux, Y; Touron, D; Neukirch, F
SO : REVUE DES MALADIES RESPIRATOIRES, 20 (2): 191-199 Part 1 APR 2003

101. **TI** : Gas stove use and respiratory health among adults with asthma in NHANES III
AU : Eisner, MD; Blanc, PD
SO : OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 60 (10): 759-764 OCT 1 2003

III-3. Populations sensibles

• **Enfants**

102. **TI** : Exposure assessment of particulate matter for susceptible populations in Seattle
AU : Liu, LJS; Box, M; Kalman, D; Kaufman, J; Koenig, J; Larson, T; Lumley, T; Sheppard, L; Wallace, L
SO : ENVIRONMENTAL HEALTH PERSPECTIVES, 111 (7): 909-918 JUN 2003

103. **TI** : Synergistic effect of multiple indoor allergen sources on atopic symptoms in primary school children
AU : Wu-Yuan Chen, Hsing-I Tseng, Ming-Tsang Wu, Hsin-Chia Hung, Hui-Tsu Wu, Hsiu-Lin Chen and Chu-Chong Lu
SO : Environmental Research Volume 93, Issue 1 , September 2003, Pages 1-8

104. **TI** : Impact of home carpets on childhood lead intervention study
AU : Yiin L-M., Liyo P.J.
SO : Environmental Research 92(2) 2003 161-165

105. **TI** : Cockroach allergen exposure and sensitization in suburban middle-class children with asthma
AU : Matsui, EC; Wood, RA; Rand, C; Kanchanaraksa, S; Swartz, L; Curtin-Brosnan, J; Eggleston, PA
SO : JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 112 (1): 87-92 JUL 2003

106. **TI** : Redecoration of apartments promotes obstructive bronchitis in atopy risk infants - Results of the LARS study
AU : Diez, U; Rehwagen, M; Rolle-Kampczyk, U; Wetzig, H; Schulz, R; Richter, M; Lehmann, I; Borte, M; Herbarth, O
SO : INT. JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 206 (3): 173-179 JUN 2003

- 107.**TI** : Influences of asthma and household environment on lung function in children and adolescents - The Third National Health and Nutrition Examination Survey
AU : Chapman, RS; Hadden, WC; Perlin, SA
SO : AMERICAN JOURNAL OF EPIDEMIOLOGY, 158 (2): 175-189 JUL 15 2003
- 108.**TI** : Fungal levels in the home and lower respiratory tract illnesses in the first year of life
AU : Stark, PC; Burge, HA; Ryan, LM; Milton, DK; Gold, DR
SO : AMERICAN J. OF RESPIRATORY AND CRITICAL CARE MEDICINE, 168 (2): 232-237 JUL 15 2003
- 109.**TI** : Respiratory symptoms and peak expiratory flow in children with asthma in relation to volatile organic
AU : Delfino, RJ; Gong, H; Linn, WS; Hu, Y; Pellizzari, ED
 compounds in exhaled breath and ambient air
SO : JOURNAL OF EXPOSURE ANALYSIS AND ENVTL EPIDEMIOLOGY, 13 (5): 348-363 SEP 2003
- 110.**TI** : Particle concentrations in inner-city homes of children with asthma: The effect of smoking, cooking, and outdoor pollution
AU : Wallace, LA; Mitchell, H; O'Connor, GT; Neas, L; Lippmann, M; Kattan, M; Koenig, J; Stout, JW; Vaughn, BJ; Wallace, D; Walter, M; Adams, K; Liu, LJS
SO : ENVIRONMENTAL HEALTH PERSPECTIVES, 111 (9): 1265-1272 JUL 2003
- 111.**TI** : Symptoms of wheeze and persistent cough in the first year of life: Associations with indoor allergens, air contaminants, and maternal history of asthma
AU : Belanger, K; Beckett, W; Triche, E; Bracken, MB; Holford, T; Ren, P; McSharry, JE; Gold, DR; Platts-Mills, TAE; Leaderer, BP
SO : AMERICAN JOURNAL OF EPIDEMIOLOGY, 158 (3): 195-202 AUG 1 2003
- 112.**TI** : Allergic sensitization to indoor and outdoor allergens and relevance to bronchial hyperresponsiveness in younger and older subjects
AU : Kerkhof, M; Postma, DS; Schouten, JP; de Monchy, JGR
SO : ALLERGY, 58 (12): 1261-1267 DEC 2003
- 113.**TI** : Indoor and outdoor environmental exposures, parental atopy, and physician-diagnosed asthma in Taiwanese schoolchildren
AU : Lee, YL; Lin, YC; Hsiue, TR; Hwang, BF; Guo, YLL
SO : PEDIATRICS, 112 (5): E389-E395 NOV 1 2003
- 114.**TI** : Effects of volatile organic compounds, damp, and other environmental exposures in the home on wheezing illness in children
AU : Venn, AJ; Cooper, M; Antoniak, M; Laughlin, C; Britton, J; Lewis, SA
SO : THORAX, 58 (11): 955-960 NOV 1 2003
- 115.**TI** : Mold-specific immunoglobulin G antibodies in a child population
AU : Korppi, M; Laitinen, S; Taskinen, T; Reiman, M; Nevalainen, A; Husman, T
SO : PEDIATRIC ALLERGY AND IMMUNOLOGY, 14 (5): 371-377 OCT 2003
- 116.**TI** : NO₂, as a marker of air pollution, and recurrent wheezing in children: a nested case-control study within the BAMSE birth cohort
AU : Emenius, G; Pershagen, G; Berglund, N; Kwon, HJ; Lewne, M; Nordvall, SL; Wickman, M
SO : OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 60 (11): 876-881 NOV 2003
- 117.**TI** : Assessment of respiratory symptoms and asthma prevalence in a US-Mexico border region
AU : Stephen, GA; McRill, C; Mack, MD; O'Rourke, MK; Flood, TJ; Lebowitz, MD
SO : ARCHIVES OF ENVIRONMENTAL HEALTH, 58 (3): 156-162 MAR 2003
- ARTICLE DE SYNTHÈSE**
- 118.**TI** : Indoor allergen exposure in the development of allergy and asthma
AU : Arshad, SH
SO : CURRENT ALLERGY AND ASTHMA REPORTS, 3 (2): 115-120 MAR 2003

ARTICLE DE SYNTHÈSE

119. **TI** : Pediatric exposure and potential toxicity of phthalate plasticizers
AU : Shea, KM; Comm Environm Hlth
SO : PEDIATRICS, 111 (6): 1467-1474 JUN 2003

ARTICLE DE SYNTHÈSE

120. **TI** : How environmental exposures influence the development and exacerbation of asthma
AU : Etzel, RA
SO : PEDIATRICS, 112 (1): 233-239 Suppl. S JUL 2003

- **Personnes âgées**

121. **TI** : Air pollution and heart rate variability among the elderly in Mexico City
AU : Holguin, F; Tellez-Rojo, MM; Hernandez, M; Cortez, M; Chow, JC; Watsow, JG; Mannino, D; Romieu, I
SO : EPIDEMIOLOGY, 14 (5): 521-527 SEP 2003



IV- EVALUATION DES RISQUES

IV-1 Explogie

- **Biomarqueurs**

122. **TI** : ELISA measurement of Stachylysin (TM) in serum to quantify human exposures to the indoor mold *Stachybotrys chartarum*

AU : Van Emon, JM; Reed, AW; Yike, I; Vesper, SJ

SO : JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 45 (6): 582-591 JUN 2003

123. **TI** : Environmental, dietary, demographic, and activity variables associated with biomarkers of exposure for benzene and lead

AU : Roy, A; Georgopoulos, PG; Ouyang, M; Freeman, N; Lioy, PJ

SO : JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEM, 13 (6): 417-426 NOV 2003

124. **TI** : Measurement of offline exhaled nitric oxide in a study of community exposure to air pollution

AU : Koenig, JQ; Jansen, K; Mar, TF; Lumley, T; Kaufman, J; Trenga, CA; Sullivan, J; Liu, LJS; Shapiro, GG; Larson, TV

SO : ENVIRONMENTAL HEALTH PERSPECTIVES, 111 (13): 1625-1629 OCT 2003

- **Evaluation de l'exposition globale ; budget espace-temps**

125. **TI** : Using human activity data in exposure models: Analysis of discriminating factors

AU : McCurdy, T; Graham, SE

SO : J. OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (4): 294-317 JUL 2003

126. **TI** : Assessing the importance of different exposure metrics and time-activity data to predict 24-h personal PM2.5 exposures

AU : Chang, LT; Koutrakis, P; Catalano, PJ; Suh, HH

SO : J OF TOX AND ENVIRONMENTAL HEALTH-PART A, 66 (16-19): 1825-1846 AUG-OCT 2003

127. **TI** : EXPOLIS simulation model: PM2.5 application and comparison with measurements in Helsinki

AU : Hanninen, O; Kruize, H; Lebre, E; Jantunen, M

SO : J EXPOS ANAL ENVIRON EPIDEM, 13 (1): 74-85 JAN 2003

- **Etude des expositions par substance**

128. **TI** : Validation of a questionnaire and microenvironmental model for estimating past exposures to ozone

AU : Gonzales, M; Ngo, L; Hammond, SK; Tager, I

SO : INTERN JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, 13 (3): 249-260 SEP 2003

129. **TI** : Relationship between volatile organohalogen compounds in drinking water and human urine in Poland

AU : Polkowska, A; Kozłowska, K; Mazerska, Z; Gorecki, T; Namiesnik, J

SO : CHEMOSPHERE, 53 (8): 899-909 DEC 2003

IV-2 Evaluation des risques

Pas d'article

V- GESTION

130. **TI** : Removal of domestic airborne dust particles by naturally charged liquid sprays
AU : Gaunt, LF; Hughes, JF; Harrison, NM
SO : JOURNAL OF ELECTROSTATICS, 58 (3-4): 159-169 JUN 2003
131. **TI** : A model for analyzing the performance of photocatalytic air cleaner in removing volatile organic compounds
AU : Zhang, YP; Yang, R; Zhao, RY
SO : ATMOSPHERIC ENVIRONMENT, 37 (24): 3395-3399 AUG 2003
132. **TI** : Environmental control for fungal allergen exposure
AU : Eggleston, PA
SO : CURRENT ALLERGY AND ASTHMA REPORTS, 3 (5): 424-429 SEP 2003
133. **TI** : Enhancement effect of TiO₂ immobilized on activated carbon filter for the photodegradation of pollutants at typical indoor air level
AU : Ao C.H., LEE S.C.
SO : APPLIED CATALYSIS B-ENVIRONMENTAL, 44 (3): 191-205 AUG 30 2003
134. **TI** : Decontamination of ventilation systems using photocatalytic air cleaning technology
AU : Goswami, DY
SO : J. of SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, 125 (3): 359-365 AUG 2003
135. **TI** : Potential for reducing indoor styrene exposure from copied paper through use of low-emitting toners
AU : Henschel, DB; Fortmann, RC; Roache, NF; Liu, XY
SO : JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 53 (11): 1347-1354 NOV 2003

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

136. **TI** : Characterization of non-methane hydrocarbons emitted from various cookstoves used in China

AU : Tsai, SM; Zhang, JF; Smith, KR; Ma, YQ; Rasmussen, RA; Khalil, MAK

SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (13): 2869-2877 JUL 1 2003

137. **TI**: Elevated asthma and indoor environmental exposures among Puerto Rican children of East Harlem

AU : Findley, S; Lawler, K; Bindra, M; Maggio, L; Penachio, MM; Maylahn, C

SO: JOURNAL OF ASTHMA, 40 (5): 557-569 2003

138. **TI** : Particulate exposure and size distribution from wood burning stoves in Costa Rica

AU : Park, E; Lee, K

SO : INDOOR AIR, 13 (3): 253-259 SEP 2003

139. **TI** : Indoor environments and health: Moving into the 21st century

AU : Samet, JM; Spengler, JD

SO : AMERICAN JOURNAL OF PUBLIC HEALTH, 93 (9): 1489-1493 SEP 2003

140. **TI** : The burden of disease from indoor air pollution in developing countries: comparison of estimates

AU : Smith, KR; Mehta, S

SO : INT JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 206 (4-5): 279-289 AUG 2003

141. **TI** : The Duluth clean indoor air ordinance: Problems and success in fighting the tobacco industry at the local level in the 21st century

AU : Tsoukalas, T; Glantz, SA

SO : AMERICAN JOURNAL OF PUBLIC HEALTH, 93 (8): 1214-1221 AUG 2003

142. **TI** : The role of CEN standardisation in the development of validation protocols and air quality measurement methods involving diffusive sampling - Part 2: Ambient and indoor air

AU : Brown, RH

SO : GEFAHRSTOFFE REINHALTUNG DER LUFT, 63 (5): 197-200 MAY 2003

143. **TI** : Indoor air pollution from biomass combustion and acute respiratory illness in preschool age children in Zimbabwe

AU : Mishra, V

SO : INTERNATIONAL JOURNAL OF EPIDEMIOLOGY, 32 (5): 847-853 OCT 2003

144. **TI** : El Nino water leaks identify rooms with concealed mould growth and degraded indoor air quality

AU : Morey, PR; Hull, MC; Andrew, M

SO : INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 52 (3): 197-202 2003

145. **TI** : The effects of clean indoor air laws: what do we know and what do we need to know?

AU : Levy, DT; Friend, KB

SO : HEALTH EDUCATION RESEARCH, 18 (5): 592-609 OCT 2003

146. **TI** : Respiratory symptoms and exposure to wood smoke in an isolated northern community

AU : Guggisberg, M; Hessel, PA; Michaelchuk, D; Ahmed, I

SO : CANADIAN J OF PUBLIC HEALTH-REVUE CANADIENNE DE SANTE PUBLIQUE, 94 (5): 372-376 SEP-OCT 2003

BILAN DES ARTICLES DE SYNTHESE (11)

TI : Naphthalene - an environmental and occupational toxicant

AU : Preuss, R; Angerer, J; Drexler, H

SO : INT ARCHIVES OF OCC AND ENVIRONMENTAL HEALTH, 76 (8): 556-576 OCT 2003

TI : Toxic mold: phantom risk vs science

AU : Chapman, JA; Terr, AI; Jacobs, RL; Charlesworth, EN; Bardana, EJ

SO : ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 91 (3): 222-232 SEP 2003

TI : Indoor health: Background levels of fungi

AU : Gots, RE; Layton, NJ; Pirages, SW

SO : AIHA JOURNAL, 64 (4): 427-438 JUL-AUG 2003

TI : A critical review of reported air concentrations of organic compounds in aircraft cabins

AU : Nagda, NL; Rector, HE

SO : INDOOR AIR, 13 (3): 292-301 SEP 2003

TI : Airborne infection control in health care facilities

AU : Kuehn, TH

SO : J OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, 125 (3): 366-371 AUG 2003

TI : Stachybotrys chartarum: cause of human disease or media darling?

AU : Miller, JD; Rand, TG; Jarvis, BB

SO : MEDICAL MYCOLOGY, 41 (4): 271-291 AUG 2003

TI : Health Effects of Indoor Fungal Bioaerosol Exposure

AU : Frederick Fung ; William G. Hughson

SO : Applied Occupational and Environmental Hygiene Volume: 18 Number: 7 Page: 535 -- 544

TI : The sick building syndrome (SBS)

AU : Ezratty, V

SO : PRESSE MEDICALE, 32 (33): 1572-1579 OCT 11 2003

TI : Indoor allergen exposure in the development of allergy and asthma

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TI : Pediatric exposure and potential toxicity of phthalate plasticizers

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TI : How environmental exposures influence the development and exacerbation of asthma

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SO : PEDIATRICS, 112 (1): 233-239 Suppl. S JUL 2003