

Stephen A. Fairfax: List of Publications

35. Montgomery, B.; Fairfax, S.; Smith, B. "Capsule Pipeline Transport Using an Electromagnetic Drive", Cement Industry Technical Conference, IEEE-IAS/PCA 2001, 2001 pp. 119-132.
34. Montgomery, D. Bruce; Fairfax, Stephen; Golay, Michael; Felder, Frank, "Long-term Availability of the Sure Power System Installation at the First National Technology Center", 1999, <http://www.hi-availability.com/techreport.htm> .
33. Kusko, Alexander and Fairfax, Stephen, "Survey of Rotary Uninterruptible Power Supplies", Paper presented at the IEEE Intelec '96, October 6-10, 1996.
32. M. Porkolab, R. Boivin, F. Bombarda, C. Christensen, D. Garnier, S. Fairfax, C. Fiore, J. Goetz, S. Golovato, M. Graf, R. Granetz, M. Greenwald, S. Horne, T. Hsu, A. Hubbard, I. Hutchinson, J. Irby, D. Jablonski, C. Kurz, B. LaBombard, B. Lipshultz, et. al., "Overview of Recent Results from Alcator C-Mod", IAEA Fifteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Seville, Spain, 26 September - 1 October 1994, IAEA-CN-60/A-1-II-2.
31. Fairfax, S.A. and Montgomery, D.B. "Anatomy of the PF Magnet Failure in Alcator C-Mod", IEEE/NPSS 15th Symposium on Fusion Engineering. *Proceedings*: Volume 1 Hyannis, MA (USA) Oct 11 - Oct 15, 1993 pp 399-403.
30. Fairfax, S.A. and the Alcator Group. "Startup and Early Results from Alcator C-Mod", IEEE/NPSS 15th Symposium on Fusion Engineering. *Proceedings*: Volume 2 Hyannis, MA (USA) Oct 11 - Oct 15, 1993 pp 812-817.
29. Fairfax, S.A.; Daigle, J.; Bertolino, V.; Paranay, J.; Zhong, X. "Operation of the Alcator C-Mod Power System", IEEE/NPSS 15th Symposium on Fusion Engineering. *Proceedings*: Volume 2, Hyannis, MA (USA) Oct 11 - Oct 15, 1993 pp 877-880
28. Hutchinson, I.H.; R. Boivin; F. Bombarda; P. Bonoli; S. Fairfax; C. Fiore; J. Goetz; S. Golovato; R. Granetz; M. Greenwald; S. Horne; A. Hubbard; J. Irby; B. LaBombard; B. Libshultz; E. Marmor; G. McCracken; M. Prokolab; J. Rice; J. Snipes; Y. Takase; J. Terry; S. Wolfe; C. Christensen; D. Garnier; M. Graf; T. Hsu; T. Luke; M. May; A. Niemczewski; G. Tinios; J. Schachter; and J. Urbahn, "First Results from Alcator C-Mod", *Phys. Plasmas* 1 (5) May 1994, pp 1511-1518.
27. R.D. Pillsbury, Jr.; S.A. Fairfax; R. Granetz; S. Horne; I. Hutchinson; G. Tinios; and S. Wolfe, "Comparison of Predicted and Measured Electromagnetic Data for Alcator C-Mod", 1992 meeting of the American Nuclear Society, Tenth Topical Meeting on the Technology of Fusion Energy, June 7-12, Boston, MA proceedings to be published in a special issue of Fusion Technology.
26. Fairfax, S.A. and the Alcator Group (Invited), "Alcator C-Mod", IEEE 14th Symposium on Fusion Engineering. *Proceedings*: Volume 2 San Diego, CA (USA) Sept 30 - Oct 3, 1991 p 656-661.

25. Bosco, J. and Fairfax, S.A., "The Alcator C-Mod Control System", IEEE 14th Symposium on Fusion Engineering. *Proceedings*: Volume 2 San Diego, CA (USA) Sept 30 - Oct 3, 1991 p 782-785.
24. Fairfax, S.A. and Sueker, K.H., "Thyristor DC Circuit Breakers for Alcator C-Mod", IEEE 14th Symposium on Fusion Engineering. *Proceedings*: Volume 1 San Diego, CA (USA) Sept 30 - Oct 3, 1991 p 542-545.
23. Sueker, K.H. and Fairfax, S.A. "Design and Construction of Thyristor DC Circuit Breakers for Alcator C-Mod", IEEE 14th Symposium on Fusion Engineering. *Proceedings*: Volume 1 San Diego, CA (USA) Sept 30 - Oct 3, 1991 p 546-550.
22. Paranay, J.S. and Fairfax, S.A. "Power Supplies for Poloidal Magnets in the Alcator C-Mod Tokamak", IEEE 14th Symposium on Fusion Engineering. *Proceedings*: Volume 1 San Diego, CA (USA) Sept 30 - Oct 3, 1991 p 533-536
21. Fairfax, S.A., "Fusion on Display", *Controls and Systems Magazine*, August 1992, p 26-28.
20. Fairfax, S.A., "MIT links PCs, PLCs to control fusion experiments", *Power Engineering magazine, Field Notes*, June 1992, p 53.
19. Fairfax, S.A., "Computer Control of a Fusion Energy Experiment", *Scientific Computing and Automation*, June 1992, p 37-45.
18. Fairfax, S.A. and the Alcator Group, "Alcator C-Mod", invited paper at the Fifth All-Union Conference on Engineering Problems of Fusion Reactors, Leningrad, (former) USSR, October 10-12, 1990. (Proceedings never received, possibly due to dissolution of USSR.).
17. Fairfax, S.A., "The Alcator C-Mod power system", IEEE 13th Symposium on Fusion Engineering. *Proceedings*: Volume 2 Lubell, M.S.; Nestor, M.B.; Vaughan, S.F. (eds.) Knoxville, TN (USA) 2-6 Oct 1989 p 1193-1196.
16. Hutchinson, I.H.; Becker, H.; Bonoli, P.; Diatchenko, N.; Fairfax, S.; Fiore, C.; Granetz, R.; Greenwald, M.; Gwinn, D.; Hakkarainen, S., "The Physics and Engineering of Alcator C-Mod", *MIT Plasma Fusion Center Research Report PFC/RR-88-11*, August 1988.
15. Fairfax, S.A., "Time-resolving electron temperature diagnostic for ALCATOR C-Mod," *MIT Plasma Fusion Center Research Report PFC/RR-84-8* May 1984.
14. Fairfax, S.A.; Parker, R.R.; Rice, J.E., "Fast electron temperature diagnostic for Alcator C", IEEE International Conference on Plasma Science St. Louis, MO, May 1984.
13. Greenwald, M.; Gwinn, D.; Milora, S.; Parker, J.; Parker, R.; Wolfe, S.; Besen, M.; Camacho, F.; Fairfax, S.; Fiore, C., "Confinement results from pellet fueled discharges in Alcator C", International Symposium on Heating in Toroidal Plasmas March 1984.

12. Greenwald, M.; Gwinn, D.; Milora, S.; Parker, J.; Parker, R.; Wolfe, S.; Besen, M.; Camacho, F.; Fairfax, S.; Fiore, C.; Foord, M.; Gandy, R.; Gomez, C.; Granetz, R.; LaBombard, B.; Lipschultz, B.; Lloyd, B.; Marmar, E.; McCool, S.; Pappas, D.; Petrasso, R.; Pribyl, P.; Rice, J.; Schuresko, D.; Takase, Y.; Terry, J.; Watterson, R., "Energy Confinement of High-Density Pellet-Fueled Plasmas in the Alcator C Tokamak", *Physical Review Letters* v 53:4. 23 Jul 1984 p 352-355

11. Fairfax, S.; Gondhalekar, A.; Granetz, R. "Energy and particle confinement in the Alcator tokamaks", *Plasma physics and controlled nuclear fusion research 1980*. Vol. 1. Proceedings of the eighth international conference held by the IAEA in Brussels, 1-10 July 1980 p 439-450.

10. Fairfax, S.; Kusse, B.; Parker, R.R.; Schuss, J.J.; Porkolab, M.; Gwinn, D.; Hutchinson, I.; Marmar, E.S.; Overskei, D.; Pappas, D.; Scaturro, L.S.; Wolfe, S., "Lower-hybrid-wave heating in the Alcator-A tokamak", *Physical Review Letters* v 43:4. 23 Jul 1979 p 274-278.

9. Schuss, J. J.; Porkolab, M.; Takase, Y.; Cope, D.; Fairfax, S.; Greenwald, M.; Gwinn, D.; Hutchinson, I. H.; Kusse, B.; Marmar, E.; Overskei, D.; Pappas, D.; Parker, R. R.; Scaturro, L.; West, J.; Wolfe, S., "Lower hybrid heating in the Alcator-A tokamak", *Nuclear Fusion* v 21 n 4 Apr 1981 p 427-452.

8. Hayzen A.J.; Moreno J.C.; Fairfax S., "Probe measurements of the boundary plasma in Alcator", *Bulletin of the American Physical Society*, 1980, V25, N8, P951.

7. Lombard B.; Fairfax S.; Overskei D.O.; Pickrell M.; Scaturro L.S., "Energy transfer to the limiter in Alcator-A and Alcator-C tokamaks", *Bulletin of the American Physical Society*, 1979, V24, N8, P998.

6. Pribyl P; Fairfax S ; Parker R., "Plasma position control on Alcator-C", *Bulletin of the American Physical Society*, 1979, V24, N8, P997.

5. Fairfax S.A.; Gaudreau M.P.G.; Montgomery D.B.; Parker RR; Pickrell M.; Pribyl P.; Sansone M.; Silva F., "Preliminary-results from Alcator-C startup", *Bulletin of the American Physical Society*, 1978, V23, N7, P913.

4. Slusher R.E.; Surko C.M.; Fairfax S.A. ; Kusse B.R.; Parker R.R.; Schuss J.J., "Laser scattering studies of driven lower hybrid waves in Alcator tokamak", *Bulletin of the American Physical Society*, 1978, V23, N7, P765

3. Schuss J.J.; Fairfax S.A. ; Kusse B.R.; Parker R.R.; Porkolab M.; Pappas D.S., "Regimes of plasma-heating due to lower hybrid microwave injection in Alcator-A", *Bulletin of the American Physical Society*, 1978, V23, N7, P765.

2. Kusse B.R.; Fairfax S.A. ; Schuss J.J.; Parker R.R.; Pappas D.S., "Ion heating due to lower hybrid microwave injection into Alcator-A plasma", *Bulletin of the American Physical Society*, 1978, V23, N7, P765.

1. Fairfax S.A. ; Kusse B.R.; Schuss J.J.; Parker R.R., "Waveguide coupling of low-level microwave-power near lower hybrid frequency into Alcator-A tokamak", *Bulletin of the American Physical Society*, 1978, V23, N7, P764.