*CV. Oppdatert oktober 2014:*

**Kristian Johan Fossheim**

Fødd i Jølster 4. desember 1935

**Utdanning**

Firda Statsrealskule 1953

Firda Gymnas, reallina, 1956

Cand Scient, fysikk, Universitetet i Oslo 1964

Dr Philos, Universitetet i Oslo 1972. Avhandling om superleiande og strukturelle faseovergangar.

**Tilsettingar i Norge**

Professor emeritus NTNU 2005-

Professor i teknisk fysikk, Norges Tekniske Høgskole (NTH) og NTNU 1980-2005.

Amanuensis og førsteamanuensis Norges Tekniske Høgskole 1970-1980.

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| Forskingsstipendiat, Norges Allmennvitskaplege Forskingsråd 1967-1970.  Vit ass Universitetet i Oslo 1964-1965. Journalist i Jærbladet, Bryne 1956-1957.  **Forskingsopphald utanlands**  Gjesteprofessor, National High Magnetic Field Lab, Florida State University, Tallahassee 1994- 1995.  Gjesteprofessor, National High Magnetic Field Lab, Florida State University, Tallahassee 2000- 2001. Gjesteprofessor, Electrotechnical Laboratory, Tsukuba og International Superconductivity Technology Center (ISTEC), Japan, 3 mndr 1990.  Gjesteforskar, IBM Thomas J Watson Research Lab, Yorktown Heights, NY, jan.-febr. 1981  Gjesteforskar, IBM Thomas J Watson Research Lab, Yorktown Heights, NY, 1975-76.  Gjesteforskar, IBM Zurich Research Lab, 5 mndr, 1973, 1975.  Research associate, tilsett, Department of Physics, University of Maryland 1966-1967. NATO Science Fellow, University of Maryland 1965-66  **Verv i Norge**  Preses i Det Kongelige Norske Videnskabers Selskap (DKNVS), 3 år 2011-2013.  Visepreses i Det Kongelige Norske Videnskabers Selskab (DKNVS), 6 år 2005-2010  Visepresident i Norsk Fysisk Selskap ein periode 1998-2000  Første styreleiar, og leiar av fagrådet for Forskerakademiet ved Universitetet i Trondheim 1991-1993  Varaordførar, Rådet for Naturvitskapleg forsking, Norges Allmennvitskaplege Forskingsråd (NAVF) 1985-1988  Leiar av fysikk-komiteen, av Material- og faststoffprogrammet og av CERN-programmet i NAVF 1985-1988  Styrar, Institutt for Teknisk Fysikk, Universitetet i Trondheim ~1984-1988  Styrar, Fysikkseksjonen ved Universitetet i Trondheim 1980-1982  Medlem av Professorrådet, NTH 1980-1983  Medlem av SINTEFs Råd ~1985-1988  Første leiar for NTHs komite for Japan-samarbeid 1991-1995  Leiar for Universitetsavisas Redaksjonsråd ~1993-1994  Medlem av Rådet for Vestlandsforsking ~1992-1994  Styremedlem, Senter for tidligmusikk 2013-2014  Styremedlem i Trondheimsolistene ~ 1990-1992  Styremedlem i Trondheim Kommunale Musikk- og Kulturskole ~1977-1980  **Bistilling**  Vitskapleg rådgjevar, Nycomed AS 1988-1994  **Forskingsområder.**  - Metallfysikk ved låge temperaturar, ned til 1 K.  - Lågtemperatur superleiar, faseovergangar i superleiar  - Ultralydteknikk, fononfysikk  - Strukturelle faseovergangar. Kritiske, kooperative fenomen i faststoff  - Akustiske overflatebølgjer i faststoff, inklusive kritiske fenomen  - Elektroakustiske og optoakustiske studier av faststoff  - Ferroelektrika  - To-puls pulverekko  - Akustisk fasekonjugering i megahertzområdet.  - Fasekonjugert ultralyd som nytt verktøy i faststoff-fysikk.  - Mikrobølgjeteknikk  - Trikritiske fenomen  - Ultralyd-mikroskop, bygging og bruk  - Høg-temperatur superleiing  - Kritisk, ikkje BCS faseovergang i høg-Tc superleiarar  - Magnetiske eigenskapar og flukspinning i Høg-Tc  **Oppbygging av forskingslaboratoria ved Norges Tekniske Høgskole**  Forskingsgruppa bygde sine eigne eksperimentelle målesystem, basert på innkjøp av komponentar av høg kvalitet. Dette var basert på både tanken om god teknisk utdanning av studentar, og på økonomiske omsyn. Forskingsutstyr som vart bygd:  -Generelt lågtemperatur utstyr for målingar ved temperaturar ned mot 1-2 K ved bruk av flytande helium  -Generelt ultralydutstyr for pulsekko-måling av akustisk demping og elastiske konstantar (lydfart) 10-1000 Mhz-området i all slags faste stoff, vanlegvis krystallinske stoff av høg kvalitet, metalliske, halvleiande, isolerande, superleiande  -To-puls fasekonjugering for utralydmåling i fasttoff  -Frekvens-avstembar mikrobølgjekavitet for generering av ultralydsignal  -Vibrating reed system for elastiske målingar på svært små prøver  -Akustisk mikroskop for studier av materialoverflater og til fysiologisk karakterisering av vev  -System for måling av varmekapasitet i faststoff, også under høgt trykk og på små krystallar  -SQUID-system for måling av magnetiske eigenskapar i superleiar  **Undervising ved NTH/NTNU**  *Fag for siv. ing. grad i teknisk fysikk*  - Faststoff-fysikk I  - Faststoff-fysikk II  - Faststoff kvantemekanikk  - Atom- og kjernefysikk  - Utvikling av laboratorieøvingar  *For andre studieretningar, siv. ing.*  - Fysikk for studentar i industriell økonomi og bygg  *Dr. ing (PhD) eksamensfag i fysikk*  - Strukturelle faseovergangar  - Magnetisme  - Kritiske fenomen og faseovergangar i faststoff, teori  - Superleiing  - Ultralydteknikk og fononfysikk, med eigenprodusert lærebok  - Lågtemperatur-fysikk og -teknikk  *Forelesingsseriar for dr studentar*  - Gruppeteori i fysikk  - Isingsmodellen  - Faseovergangar  - 24 forelesingar i superleiing ved Vilnius Universitet. Støtta av EU-program |
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**Medlem av internasjonale komitear**

**Offisielle representasjonsoppgåver**

* Chairman of the international jury for the award of Belgium`s- research prize of 100 000 ECU, *Dr. A. De Leeuw-Damry- Bourlart. -Exact Sciences,* awarded once every 5 years by *Fonds voor Wetenschappelijk Onderzoek*, Flandern, Brussels March 15, 2005.

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| - European Member, International Review Committee for | |
|  | [*Electrotechnical Laboratory (ETL)*](http://www.etl.go.jp/)*, Tsukuba, Japan* 1996  - Member of the scientific delegation on H M King Harald`s visit to Japan in 2001. |
| - Member, Executive Board of the journal | |
|  | [*Superconductor Science and Technology*](http://www.iop.org/), Institute of Physics (IOP), England |
| - Representing Norwegian university research in the capacity of Chairman of the Research Academy of University of Trondheim (Forskerakademiet ved UNIT) in the delegation of Prime minister Gro Harlem Brundtland on visiting Japan in January 1992. | |
|  | - Member, International Advisory Committee, [*World conference of superconductivity: M2S-HTSC*](http://m2s-conf.uh.edu/), Kanazawa 1991, Beijing 1997, Houston 2000, Rio de Janeiro 2003, Dresden 2006. |
| - Member annually since 1990 of International Advisory Committee for | |
|  | [*International Symposium on Superconductivity*](http://www.istec.or.jp/ISS/)*,* Japan |
| - Member, International Advisory Committee | |
|  | [*European Conference on Applications of Superconductivity (EUCAS)*](http://www.icmab.es/eucas99) |
| - Member, Steering Committee | |
|  | [*ESF-program on Vortex matter.*](http://www.fys.kuleuven.ac.be/vortex/vortex03_a.htm)  **Arrangør av internasjonale konferansar:**  - Første norske konferanse for faststoff-fysikk, *The Trondheim Seminar on Solid State Physics 1985*, Oppdal 11.-13. mars 1985.  - Første *Nordic Superconductivity Symposium*, Røros 1991  *- Applied Superconductivity Winter School*, Røros 1991  *- Applications of Superconductivity, NATO ASI*, med H. Weinstock, Loen 1997  *- Internasjonal konferanse: Critical Properties of Vortex Matter*, saman med Asle Sudbø, Loen 2001  - Internasjonal konferanse i Trondheim ved Lars Onsagers 100. fødselsår, 2003. Arr.:Signe Kjeldstrup, Dick Bedeaux, Bjørn Hafskjold, Asle Sudbø og Kristian Fossheim  **Internasjonal samarbeid ved forskingsopphald og utveksling av prøvemateriale**  University of Maryland, Thomas J Watson Research Center Zurich, og New York, Universität Saarbrücken, MIT Boston, Brookhaven National Laboratory, Universität Wien, University of Birmingham, Electrotechnical Laboratory, Tsukuba, Japan, Nippon Telephone and Telegraph, Japan, University of Hiroshima, University of Tokyo, Berkeley University, National High Magnetic Field Laboratory, Florida, Academy of Science, Moskva. |

Doktorgradar avlagde ved NTH/NTNU under vegleiing av

Kristian Fossheim

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|  | |  |  |  | | --- | --- | --- | |  |  |  | |  | Leif Bjerkan (1977): | | |  | | *Surface wave investigations of perovskites* | |  | Rune Holt (1980): | | |  | | *Development and application of phonon echo technique in phase transtition studies* | |  | Sigmund Stokka (1981): | | |  | | *Specific heat at structural phase transitions* | |  | Jon Otto Fossum (1983): | | |  | | *Critical behaviour of acoustic modes in perovskites* | |  | Erik Sandvold (1987): | | |  | | *Phase transitions in ferroelectric systems* | |  | Trygve Lægreid (1988): | | |  | | *Experimental studies of high temperature superconductivity and structural phase transitions* | |  | Olav-Magnar Nes (1992): | | |  | | *Construction and application of vibrating reed apparatus to perovskites: High-TC superconductors and SrTiO3* | |  | Wu Ting (1992): | | |  | | *Structural instability and phase transitions in high-TC cuprate superconductors* | |  | Lise T. Sagdahl (1994): | | |  | | *Experimental studies of flux dynamics in high temperature superconductors* | |  | Pål Tuset (1994): | | |  | | *Magnetoresistance in superconductors* | |  | Lars Ketil Heill (1995): | | |  | | *Magnetic properties of high temperature superconductors* | |  | Svein Gjølmesli (1995): | | |  | | *Critical state and vortex dynamics in high temperature superconductors* | |  | Ellen D. Tuset (1997): | | |  | | *Magnetic relaxation and flux pinning in high-temperature superconductors* | |  | Jørgen Nyhus (2001): | | |  | | *Resonant ultrasonic system design, and measurements of critical behaviour and flux-line elasticity in high temperature superconductors* | |  | Ulrik Thisted (2004): | | |  | | *Magnetic and thermodynamic properties of layered and thin film superconductors* | | |

Scientific Publications

(Newer first)

**As listed in Web of Science**

*The Web of Science listing is incomplete. A number of publications not listed in Web of Science were printed in proceedings in book format. Some of these have been listed under the heading “Foredrag og posters…” given below. Many of them have not been recovered and listed.*

*In many papers the author name Fossheim K is not listed, but is understood to be among the “et al” (coworkers) and will be displayed on searching the full reference. Due to customary practice for the group leader to be the last name on author list*

1. [Proceedings of the Fourth International Conference on Vortex Matter in Nanostructured Superconductors - VORTEX IV - Crete, September 3-9, 2005 - Closing remarks](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=P2qOYs1H3W5OQeP9KsN&page=1&doc=1)

Fossheim, K, PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 437-38   Pages: XI-XIII   Published: MAY 15 2006

2. [Special issue - Proceedings of the Third European Conference on Vortex Matter in Superconductors at Extreme Scales and Conditions - Crete, Greece, September 20-28, 2003 - Closing remarks](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=P2qOYs1H3W5OQeP9KsN&page=1&doc=2)

Fossheim, K

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 404   Issue: 1-4   Pages: IX-XI   Published: MAY 1 2004

3. [Strong diamagnetic response and specific heat anomaly above T-c in underdoped La2-xSrxCuO4](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=P2qOYs1H3W5OQeP9KsN&page=1&doc=3)

Thisted, U; Nyhus, J; Suzuki, T; Fossheim K et al.

Conference: 3rd European Conference on Vortex Matter in Superconductors at Extreme Scales and Conditions Location: Crete, GREECE Date: SEP 20-28, 2003

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 404   Issue: 1-4   Pages: 380-384   Published: MAY 1 2004

4. [Strong diamagnetic response and specific heat anomaly above Tc in underdoped La2-xSrxCuO4](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=4)

By: Thisted, U; Nyhus, J; Suzuki, T; Hori, J, Fossheim, K

PHYSICAL REVIEW B  Volume: 67   Issue: 18     Article Number: 184510   Published: MAY 1 2003

5.[Transverse phonon scattering in s-wave superconductors: the role of BCS coherence factors and Meissner screening near Tc](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=5)

By: Fossheim, K; Opheim, NT; Bratsberg, H

SUPERCONDUCTOR SCIENCE & TECHNOLOGY  Volume: 15   Issue: 8   Pages: 1252-1258   Article Number: PII S0953-2048(02)34762-6   Published: AUG 2002

6. [Bi2Sr2CaCu2Ox bulk superconductor with MgO particles embedded](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=6)

By**By:**[Christova, K](http://apps.webofknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&author_name=Christova,%20K&dais_id=4095207&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Manov, A](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&field=AU&value=Manov,%20A); [Nyhus, J](http://apps.webofknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&author_name=Nyhus,%20J&dais_id=12802044&excludeEventConfig=ExcludeIfFromFullRecPage); [Thisted, U](http://apps.webofknowledge.com/DaisyOneClickSearch.do?product=WOS&search_mode=DaisyOneClickSearch&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&author_name=Thisted,%20U&dais_id=13941273&excludeEventConfig=ExcludeIfFromFullRecPage); [Herstad, O](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&field=AU&value=Herstad,%20O); [Foss, SE](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&field=AU&value=Foss,%20SE); [Haugen, KN](http://apps.webofknowledge.com/OneClickSearch.do?product=WOS&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&colName=WOS&SID=V2H57qEWeZRhxfjBvGc&field=AU&value=Haugen,%20KN); Fossheim, K

JOURNAL OF ALLOYS AND COMPOUNDS  Volume: 340   Issue: 1-2   Pages: 1-5   Article Number: PII S0925-8388(01)02021-7   Published: JUN 26 2002

7. [Elastic and specific heat critical properties of La1.85Sr0.15CuO4](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=7)

By: Nyhus, J; Thisted, U; Kikugawa, N; Suzuki, T, Fossheim, K

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 369   Issue: 1-4   Pages: 273-277   Article Number: PII S0921-4534(01)01257-6   Published: MAR 15 2002

8. [Step-like oscillations in the resistance of two weakly linked aluminum rings](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=8)

By: Zhilyaev, IN; Boronin, SG; Fossheim, K.

Conference: 1st Euroconference on Vortex Matter in Superconductors at Extreme Scales and Conditions Location: IRAKLION, GREECE Date: SEP 18-24, 1999   
Sponsor(s): VORTEX; ESF

PHYSICA C  Volume: 332   Issue: 1-4   Pages: 422-425   Published: MAY 2000

9. [Microstructure and flux distribution in both pure and carbon-nanotube-embedded Bi2Sr2CaCu2O8+delta superconductors](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=9)

By: Huang, SL; Koblischka, MR; Fossheim, K; et al.

PHYSICA C  Volume: 311   Issue: 3-4   Pages: 172-186   Published: JAN 10 1999

10. [Shear elastic properties of the Y1-xPrxBa2Cu3O7-delta system: A possible correlation between T-c and a structural instability](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=1&doc=10)

By: Ivanov, O; Fossheim, K; Balankina, E; et al.

PHASE TRANSITIONS  Volume: 70   Issue: 3   Pages: 147-159   Part: A   Published: 1999

11. [Evidence for pinning by (Sr,Ca)(2)CuOy particles in partial-melting processed bulk Bi2Sr2CaCu2O8+delta ceramics](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=11)

By: Koblischka, MR; Huang, SL; Fossheim, K; et al.

PHYSICA C  Volume: 300   Issue: 3-4   Pages: 207-211   Published: MAY 10 1998

12. [Flux pinning and grain coupling studied by magneto-optical visualization in Bi2Sr2CaCu2O8-delta ceramics.](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=12)

By: Koblischka, MR; Huang, SL; Johansen, TH; et al.

Conference: International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V Location: BEIJING, PEOPLES R CHINA Date: FEB 28-MAR 04, 1997

PHYSICA C  Volume: 282   Pages: 1469-1470   Part: 3   Published: AUG 1997

13. [Increased flux pinning in both pure and carbon-nanotube-embedded Bi-2212 superconductors](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=13)

By: Huang, SL; Koblischka, MR; Fossheim K; et al.

Conference: International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V Location: BEIJING, PEOPLES R CHINA Date: FEB 28-MAR 04, 1997   
PHYSICA C  Volume: 282   Pages: 2279-2280   Part: 4   Published: AUG 1997

14. [Comparison of fully-reacted and partly-reacted Bi2Sr2CaCu2Oy precursor powders](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=14)

By: Huang, SL; DewHughes, D; Fossheim, K.

Conference: International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V Location: BEIJING, PEOPLES R CHINA Date: FEB 28-MAR 04, 1997   
PHYSICA C  Volume: 282   Pages: 2617-2618   Part: 4   Published: AUG 1997

15. [Flux pinning and grain coupling in Bi2Sr2CaCu2O8+delta ceramics: Magneto-optical investigations](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=15)

By: Huang, SL; Koblischka, MR; Johansen, TH; et al.

Edited by: Rogalla, H; Blank, DHA

Conference: 3rd European Conference on Applied Superconductivity (EUCAS 1997) Location: VELDHOVEN, NETHERLANDS Date: JUN 30-JUL 03, 1997

APPLIED SUPERCONDUCTIVITY 1997, VOLS 1 AND 2: VOL 1: SMALL SCALE AND ELECTRONIC APPLICATIONS; VOL 2: LARGE SCALE AND POWER APPLICATIONS  Book Series: INSTITUTE OF PHYSICS CONFERENCE SERIES   Issue: 158   Pages: 1137-1140   Published: 1997

16. [Short time magnetic relaxation in Bi2Sr2Ca2Cu3O10 tapes: A study of thermally activated flux motion and vortex glass transition](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=16)

By: Gupta, A; Tuset, ED; Karkut, MG; et al.

PHYSICA C  Volume: 272   Issue: 1-2   Pages: 33-42   Published: NOV 20 1996

17. [Resistive quantum oscillations in superconducting aluminum microstructures](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=17)

By: Zhilyaev, IN; Sosnin, IA; Tuset, P; et al.

PHYSICAL REVIEW B  Volume: 54   Issue: 14   Pages: R9658-R9661   Published: OCT 1 1996

18. [LOGARITHMIC CURRENT-DENSITY DEPENDENCE OF THE ACTIVATION BARRIER IN SUPERCONDUCTING HGBA2CACU2O6+X](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=18)

By: GJOLMESLI, S; Fossheim, K; SUN, YR; et al.

PHYSICAL REVIEW B  Volume: 52   Issue: 14   Pages: 10447-10451   Published: OCT 1 1995

19. [ENHANCED FLUX-PINNING IN BI2SR2CACU2O8+X SUPERCONDUCTOR WITH EMBEDDED CARBON NANOTUBES](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=19)

By: Fossheim, K; TUSET, ED; EBBESEN, TW; et al.

PHYSICA C  Volume: 248   Issue: 3-4   Pages: 195-202   Published: JUN 20 1995

20. [Short time flux creep in Bi2Sr2Ca2Cu3O10 tapes](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=2&doc=20)

By: Gupta, A; Tuset, ED; Karkut, MG; Fossheim,K.

Edited by: DewHughes, D

Conference: 2nd European Conference on Applied Superconductivity (EUCAS 1995) Location: EDINBURGH, SCOTLAND Date: JUL 03-06, 1995   
APPLIED SUPERCONDUCTIVITY 1995, VOLS. 1 AND 2: VOL 1: PLENARY TALKS AND HIGH CURRENT APPLICATIONS; VOL 2: SMALL SCALE APPLICATIONS  Book Series: INSTITUTE OF PHYSICS CONFERENCE SERIES   Volume: 148   Pages: 243-246   Published: 1995

21. [IV measurements and scaling analyses of Ag/Bi2223 tapes](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=3&doc=21)

By: Karkut, MG; Fossum, JO; Tuset, P; Ting, W, Fossheim, K.

Edited by: DewHughes, D

Conference: 2nd European Conference on Applied Superconductivity (EUCAS 1995) Location: EDINBURGH, SCOTLAND Date: JUL 03-06, 1995

APPLIED SUPERCONDUCTIVITY 1995, VOLS. 1 AND 2: VOL 1: PLENARY TALKS AND HIGH CURRENT APPLICATIONS; VOL 2: SMALL SCALE APPLICATIONS  Book Series: INSTITUTE OF PHYSICS CONFERENCE SERIES   Volume: 148   Pages: 455-458   Published: 1995

22. [A time efficient SQUID magnetometer. Magnetic relaxation in a YBa2Cu3O7-x thin film](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=3&doc=22)

By: Tuset, Ellen D.; Sagdahl, Lise T.; Karkut, Michael G.; Fossheim, K.

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 235-40   Pages: 2927-2928   Part: 5   Published: DEC 1994

23. [Angle dependence of the magnetoresistance in the mixed state of YBa2Cu3O7 and Y0.8Pr0.2Ba2Cu3O7 thin films](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=3&doc=23)

By: Tuset, P.; Karkut, M. G.; Fossheim, K.

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS  Volume: 235-40   Pages: 3133-3134   Part: 5   Published: DEC 1994

24. [Anomalous ac magnetic response in an YBa2Cu3O7 crystal with H perpendicular to c](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=V2H57qEWeZRhxfjBvGc&page=3&doc=24)

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SUPERCONDUCTOR SCIENCE & TECHNOLOGY  Volume: 4   Supplement: 1   Pages: S388-S390   Published: JAN 1991

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PROCEEDINGS OF THE ICTPS 90 INTERNATIONAL CONFERENCE ON TRANSPORT PROPERTIES OF SUPERCONDUCTORS  Book Series: PROGRESS IN HIGH TEMPERATURE SUPERCONDUCTIVITY   Volume: 25   Pages: 135-139   Published: 1990

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PHYSICA C  Volume: 162   Pages: 339-340   Part: 1   Published: DEC 1989

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- Besøk ved MIT, januar 1983, Boston

- Universitetet i Wien, oktober 1982

- Stefan- Instituttet i Ljubljana, Jugoslavia, oktober 1982

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Formidling og debatt i Norge: Foredrag, kronikkar, artiklar

**Foredrag**

***Bærekraftig utvikling. Vår tids største globale utfordring***

Foredrag m/powerpoint ved seminar for VGS-lærarar i realfag. Skolelaboratoriet, NTNU; 2014-04-02

***Medisinsk teknologi, basert på fysikkens landevinningar***

Foredrag m/powerpoint ved seminar for VGS-lærarar i realfag. Skolelaboratoriet, NTNU; 2014-04-02  
  
***Superleiing***

Foredrag m/powerpoint ved seminar for VGS-lærarar i realfag. Skolelaboratoriet, NTNU; 2014-04-01  
  
***Bærekraftig utvikling: Korleis møter vi vår tids største globale utfordring***?

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***Hundre år med superleiing: Frå ubegripeleg til uunnverleg***

Forelesing m/powerpoint, Gløshaugen Akademiske Klubb, GAK, 2011-12-15

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***Fakta og refleksjonar om Darwin og hans lære, med 150 års etterfølgjande utvikling***

Foredrag m/powerpoint, Senioruniversitetet, Førde; 2009-09-09

***Fysikkens bidrag til medisinske landevinningar i det 20. hundreåret***

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***Funksjonelle materiale***

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***Tankar om nynorsken i dag og i eit framtidig teknologisk samfunn***

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- STATOILs Forskningssenter, Trondheim

- Nycomed A/S, Oslo

- Styret i Norges Teknisk- Naturvitenskapelige Forskningsråd, Lerchendal, Trondheim.

- Forsvarets Forskningsinstitutt, Kjeller

- Forskningsjournalistenes forening, Oslo

- Fredagskollokviet, Institutt for fysikk, NTH

- Avdeling for Kjemi, NTH

- Institutt for fysikk, Universitetet i Bergen

- Forelesing ved eit privatorganisert seminar i Bergen

- Fysisk Institutt, Universitetet i Oslo.

- Høgskolen i Vestfold, Horten

- Norsk Fysisk Selskaps årsmøte i Stavanger

- Weissmann-foreningen i Trondheim

- Lions Club, Trondheim

- Seminar for fysikklærarar i vgs, Dragvoll

- Universitetets opningsmøte på Dragvoll 1988

- Lørdagsakademiet, Suhmhuset, NTNU

- "Teknobrønnen," Teknostallen, Trondheim

- EB Norsk Kabels 75-års feiring, Drammen

Kronikkar

***Ivar Aasen og jølstringane***

*I høve språkåret 2013*

Kristian Fossheim. *Firda* januar 2013

***Ivar Aasen og jølstringane***

*I høve språkåret 2013*

Kristian Fossheim. *Firda Tidend* januar 2013

***Ny pris for bærekraftig forsking***

*Om Gunnerusprisen*

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**Kor viktig er matematikk i skulen?**

Kristian Fossheim, *Firda* 2008-05-05

**Matematikk som stormaktsinstrument.**

Kristian Fossheim, *Adresseavisen* mai 2008

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Kristian Fossheim, A*dresseavisen,* juli 2008

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| **Er vi klare for Kina?**  Kristian Fossheim, *Adresseavisen* november 2006 |
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| **Er vi klare for Kina?**  Kristian Fossheim, *Firda* desember 2006  **Er vi klare for Kina?**  Kristian Fossheim, *Dagbladet* 2006-11-21  **Teknologane må på banen.**  Kristian Fossheim, *Adresseavisen* 2008-03-20  **Naturfaga taper kampen om elevane**  Kristian Fossheim. Invitert leiarartikkel i *Dagbladet* 1996-08-22  **Matematikken får sin Abel-pris.**  Kristian Fossheim, *Firda* juni 2003  **Åndens triumf får sin pris.**  Kristian Fossheim, *Adresseavisen* juni 2003  **Audunarspelet, ei utfordring til kulturbygda Jølster**  Kristian Fossheim, *Firda* 2000-08-18  **Audunarspelet, ei utfordring til kulturbygda Jølster**  Kristian Fossheim, *Firda Tidend* 2000-08-21  **Matematikk ikkje for nordmenn?**  Kristian Fossheim, *Firda* 1998-10-27. (*Etterfølgd av to innlegg til)*  **Skal Norge bli eit høgteknologiland?**  Kristian Fossheim, *Adresseavisen* 1996-06-27  **Skal Norge bli eit høgteknologiland?**  Kristian Fossheim, *Aftenposten* 1996-06-27  **Grunnleggande materialforsking og industrielle interesser**  Kristian Fossheim, *Forskingspolitikk* nr 2/96  **Forsking på lang sikt**  Kristian Fossheim, *Aftenposten* 1992-08-18  Andre debattinnlegg  **Neste satsing: Fysikk**  Kristian Fossheim, *Aftenposten* 2014-09-24  **Akademiet med stor A**  Kristian Fossheim, *Aftenposten* 2012-12-20  **Sveltefora forskarar.**  Kristian Fossheim, *Aftenposten* 2011-02-27  **Skal du lære omstilling, reis til Beethovens by, Bonn**  Artikkel s. 294 i *Formidling og engasjement: Kronikkar, artiklar, foredrag og debattinnlegg av Kristian Fossheim.* Ingun Kjelsvik Holøyen (red.), Trondheim: NTNU-trykk 2010 (ISBN 978-82-303-1702-0) 323 s.  **Realfaga taper kampen om elevane**  Invitert leiarartikkel i *Dagbladet,* august 1998  **La Audunspelet leve!**  Kristian Fossheim*, Firda* 2006 -09-05  **Audunspelet stort og fornya**  Kristian Fossheim, *Firda* 2004-07-31  **Forskingsproduksjon må sjåast i samanheng med finansiering**  Kristian Fossheim, *Forskningspolitikk*  Nr 4, 1999  **Skaper ikke nye arbeidsplasser**  Anne B Bjørken, intervju av KF, *Adresseavisen*, 1996-10-31  **Materialforsking og industrielle interesser- nok ein gong**  Kristian Fossheim. *Forskningspolitikk* Nr4, 1996  **Grunnleggande materialforsking og industrielle interesser**  Kristian Fossheim. *Forskningspolitikk* Nr2,1996  **Gjer noko med det!**  *Om behovet for betre vilkår for forsking*  Kristian Fossheim. Leiarartikkel i *Fra Fysikkens Verden* Nr 4, 1988  Andre artiklar  Fire illustrerte artiklar i Adresseavisens serie «Visste du at?» 2004-2005:  ***- Mikrobølgjer***  ***- Fins det klokker som måler tid bakover?***  ***- Den einsame bølgja***  ***- Tidevatn, flod og fjære, ei enkel sak?***  ***Materialkunnskap i vidaregåande skole***  Fossheim, Kristian. (*2002)* Fra Fysikkens Verden. Volum 64 nr3  ***Johannes Fossheim: Lærar og føregangsmann i Jølster i 50 år***  Fossheim, Kristian: 2-siders artikkel i Firda desember 2001:  ***Høgtemperatur superleiar i 10 år: Milliardmarknad ventar***  Teknisk Ukeblad, 1996  ***Kvantefysikk og teknologi***  UNIT-NYTT nr 5, sept. 1988    ***Ein fysikars draum blir realitet***  Artikkel i Fra Fysikkens Verden, om oppdaginga av høg-Tc superleiar, 1987. |  |  |

Radio

**Radioforedrag i NRK P2-Akademiet.**

***Nanoteknologi. Motefenomen eller sesam-sesam?***

Radioforedrag, NRK P2-Akademiet; 2005-02-03

Trykt: Kristian Fossheim. *NRK P2-Akademiet*  Bind XXXIV

ALT Trykk, Otta A/S, 2005. ISBN-13: 978-82-7596-158-5. s. 137-146

***Johannes Haarklou- Ein av norsk musikks mest allsidige komponistar***

Radioforedrag, NRK P2-Akademiet. 2003-01-30

Trykt: Kristian Fossheim. *NRK P2-Akademiet* 30.01.2003*,* Bind XXVIII

HS-Trykk A/S, Oslo 2003, ISBN 82-7596-151-3, s. 144-151

***Baron Audun Hugleiksson: Eit 700-års minne.***

Radioforedrag, NRK P2-Akademiet, 2002-03-21

Trykt: Kristian Fossheim. *P2-Akademiet* Bind Z.

AIT Trykk Otta A/S, 2002. ISBN 82-7118-284-6. s 59-70

***Kvantefysikk og teknologi: Historia om superleiaren***

Radioforedrag, NRK P2-Akademiet; 1994-08-06

Trykt: Kristian Fossheim*. NRK P2-Akademiet*. 6.8.94. Kulturredaksjonen P2, 1995

Engers Boktrykkeri A/S. ISBN 82-7118-227-7, s. 97-108

**Andre radioinnslag**

NRK-P2 *Verdt å vite*, Medverknad i tre innslag om superleiing og eitt om Buckminster-Fulleren molekylet, 1988-2002

NRK-P2 *Verdt å vite.* Intervju v/Ivar Grydeland om 250-års jubileet i DKNVS, 2010

Direktesendt på P3, om superleiing

Direktesendt på P3, om magnetisme

Medverknad på NRK TV og TV2

TV2- program ***«Ivar Giaever hadde dårlige karakterer-Fikk Nobelprisen i fysikk»***

Intervju av Ivar Giaever og Kristian Fossheim, ved Gerhard Helskog 2013-03-03

***Forslag om ny internasjonal DKNVS forskingspris for bærekraft***

NRK1 TV-nyheitene og radio. Intervju 2007-06-07

***Flo og fjære***

NRK TV, Medverknad i Schrødingers katt 2005-10-06

***Dei som ikkje fikk Nobel-prisen***

NRK TV, Heile Schrødingers katt- programmet etter programidé av Kristian Fossheim, 2001-12-13

***Nobel's greates hits***

Kvalitetssikring av programserie frå BBC: "Wired", "Cracking the cosmos","Quantum leaps", "Nobel-the man", "Loners", "Super Cool", "See through", "Beyond the atom", "The good, the bad:Radioactivity". NRK-TV Schrødingers katt 2001.

***Superleiar***

NRK TV Programinnslag i "Schrödingers katt" 1999

***Fullerener og karbon-nanorør***

NRK TV Schrødingers katt1997-12-17

***Nobelprisen i fysikk 1987:***

*Superleiar-demonstrasjon med levitasjon, i NRK1 -TV nyheitsstudio,*

desember 1987

Spesielle Initiativ

Skriftleg avtale mellom NTNU og DKNVS om DKNVS si innflytting og bruk av Fylkesmannsboligen i Elvegata 17, Trondheim. Avtalen signert av rektor Torbjørn Digernes og preses Kristian Fossheim på Høgtidsdagen i selskapet 2013.

Oppretting og utdeling av *Gunnerusprisen for bærekraft* frå Det Kongelige Norske Videnskabers Selskab. Første initiativ i vart teke som visepreses i DKNVS i 2006. Første utdeling som preses, til Kamal Bawa 17. april 2012. Annonsering av Gunnerusprisen på Youtube: http://www.youtube.com/watch?v=ZcG0YbUbqtU

Intervju med prisvinnar Kamal Bawa på Youtube: http://www.youtube.com/watch?v=6o2sEN0pQr4

Kristian Fossheim foreslo i DKNVS-strategidiskusjon i 2008 å opprette eit internasjonalt forum som møtestad for forsking, industri og politikk i Trondheim, kalla Global Challenge Forum, særleg med tanke på å fremje bærekraftig utvikling globalt. Saka vart utgreidd i eit breitt samansett råd, med representantar for forsking, næringsliv og politikk i regionen. Technoport- organisasjonen tende på ideen og overtok den, og utvikla seg til eit internasjonalt forum i tråd med tankane i Global Challenge Forum. Gunnerusprisen vart så utdelt i regi av Technoport i 2012. Sjå ovanfor.

Formann i jubileumskomiteen for 250-års jubileet for Det Kongelige Norske Videnskabers Selskab, mellom anna initiativ til:

- Monumentet til heider for grunnleggarane av DKNVS i Museumsparken, Trondheim (juryformann) Monumentet *Reflexions* avduka av H M Kong Harald den 12. mars 2010.

- Utstilling i Nordenfjeldske Kunsindustrimuseum

- Utstilling av Håkon Blekens kunst i Trondheim Kunstmuseum

- Festkveld med utstilling om universalgeniet Johan Daniel Berlin

- Gunnerusforelesingar i Studentersamfundet ved jubileet

Initiativ til Håkon Bleken- utstilling i Eikaasgalleriet i Jølster, 22. oktober 2011, m/opningstale

Initiativ, saman med Jølster Mållag, til 100-års feiring av nynorsk i skulen i Jølster, 2. november 2011

Oppretta i 2000 firmaet Simplicatus, i dag Simplicatus Research and Development, saman med ein fysikkstudent. Formål: Utvikling og spreiing av læremateriell i naturfag og matematikk, med utgangspunkt i utvikling av superleiing-formidlingsressursen Superlab: http://home.phys.ntnu.no/instdef/prosjekter/super/index.html

Initiativtakar i 1992 til feiring av 150-års jubileet for matematikaren Sophus Lies fødsel på Nordfjordeid, ved brev til ordføraren og innlegg i Fjordabladet. Det var avduka av statue av Sophus Lie. Feiringa førde til oppretting av internasjonalt Sophus Lie Conference Center og Sophus Lie Summer School i matematikk på Nordfjordeid.

La i 1991 grunnlaget for oppretting av eit nordisk konsortium innan superleiarforsking, etter arrangement av to internasjonale konferansar på Røros. Konsortiet fekk deltaking frå alle dei nasjonale forskingsråda, frå Nordisk Industrifond og nordiske industribedrifter, med ei total ramme på 47 millionar kroner.

Oppretta i 1989 SINTEF Anvendt Fysikk saman med kollegane Ola Hunderi og Ragnvald Høier.

Oppretting av eit samarbeidande miljø innan superleiarforsking i fysikk, kjemi og elektro ved NTH

Initiativtakar gjennom Forskingsrådet NAVF til den første evaluering av norsk forsking innan material-og fastsstoff-fysikk. Den såkalla Fischer-rapporten vekte nasjonal merksemd og vart følgd av oppretting av nasjonalt forskingsprogram.

Initiativtakar i 1985 gjennom Forskingsrådet NAVF (Det dåverande Rådet for Naturvitskapleg Forsking under Norges Allmennvitskaplege Forskingsråd) til oppretting av det første norske grunnforskingsprogrammet i material- og fatstoff-fysikk. Leia dette programmet i åra 1986- 1989.

Initiativtakar gjennom Forskingsrådet RNF/NAVF i 1985 til å skaffe Norges Tekniske Høgskole den første superdatamaskin ved eit norsk universitet.

Ein av initiativtakarane til Sogespelet om Audun Hugleikson i Jølster gjennom ein kronikk i dagsavisa Firda. Spelet hadde premiere i 2002 med tekst av Edvard Hoem og musikk av Henning Sommerro.

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| |  | | --- | | Prisar | | |  |  | | --- | --- | |  | [*Allforskprisen*, formidlingspris, Trondheim kommune 2003](http://www.universitetsavisa.no/ua_lesmer.php?kategori=nyheter&dokid=3ed34f4b19ee06.70797915) | |  | *Sogn og Fjordane Fylkes Målpris 1989*. Første mottakar | |  | *EB Norsk Kabels Jubileumspris for superleiarforsking, 1988* | |  | *Fridtjof  Nansens belønning for yngre forskarar 1977* | | |  | |

Omtale pressa

**Nokre døme på avis-, vekeblad- og forskningstidsskrift-oppslag med eller om KF:**

- Stort intervju med KF i Adresseavisen, mars 1987: «Superstoff revolusjonerer vår teknologiske hverdag»

- Diverse omtalar i Teknisk Ukeblad, 1987 og seinare.

- Intervju med KF i Aftenposten 1987

- Gemini, 1987: «Journalisten som ble fysikkprofessor»

- Reportasje i Magasinet, Aftenposten 1988: «Superlederne er på vei»

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av Helge Johnsen