

APSTIPRINU
LU CFI direktors

/A.Šternbergs/
Rīgā, 2007.g. 20 .novembrī

**LU Cietvielu fizikas institūta
(LU aģentūras)
2006.gada publiskais pārskats**

1. LU CIETVIELU FIZIKAS INSTITŪTA DARBĪBAS ILGTERMIŅA UN VIDĒJA TERMIŅA MĒRĶI

Izveidot LU CFI par vadošo pētniecības centru funkcionālu materiālu un nanotehnoloģiju jomā Latvijā un atzītu pētniecisko iestādi Eiropas Zinātniskajā telpā, kur augsta līmeņa zinātniskā darbība (gan fundamentālie pētījumi, gan arī pētījumu rezultātu komercializācija) ir organiski apvienota ar augstas kvalitātes akadēmiskajām un profesionālajām studijām.

Mērķi analizēti „LU CFI vidējā termiņa darbības stratēģijā” – dokumentā, kas ir apstiprināts LU Senātā (skat. 1.pielikumu)

2. GALVENĀS FUNKCIJAS UN UZDEVUMI

Galvenie uzdevumi ir:

- Zinātniskie pētījumi un to finansējuma ieguve;
- Studiju darbs;
- Akadēmiskās darbības rezultivitāte (publikācijas, patenti, monogrāfijas, speciālisti);
- Pētījumu rezultātu komercializācija;
- Zinātnes komunikācija;
- Personāla attīstība;
- Zinātniskās infrastruktūras attīstība;
- Darbinieku sociālais nodrošinājums;
- Līdzdalība LU institūcijās (skat. Pārvaldes līgumu, kas noslēgts ar LU 2007.gada 2.janvārī – 2.pielikums)

3. JURIDISKAIS STATUSS UN STRUKTŪRA

Latvijas Universitātes aģentūra „LU Cietvielu fizikas institūts” ir izveidots ar Ministru kabineta rīkojumu Nr. 248 12.04.2006., reorganizējot Izglītības un zinātnes ministrijas pārziņā esošus valsts bezpeļņas zinātniskos uzņēmumus (institūtus). LU Cietvielu fizikas institūts atrodas LU pārraudzībā un darbojas saskaņā ar Zinātnes likumu un Publisko aģentūru likumu.

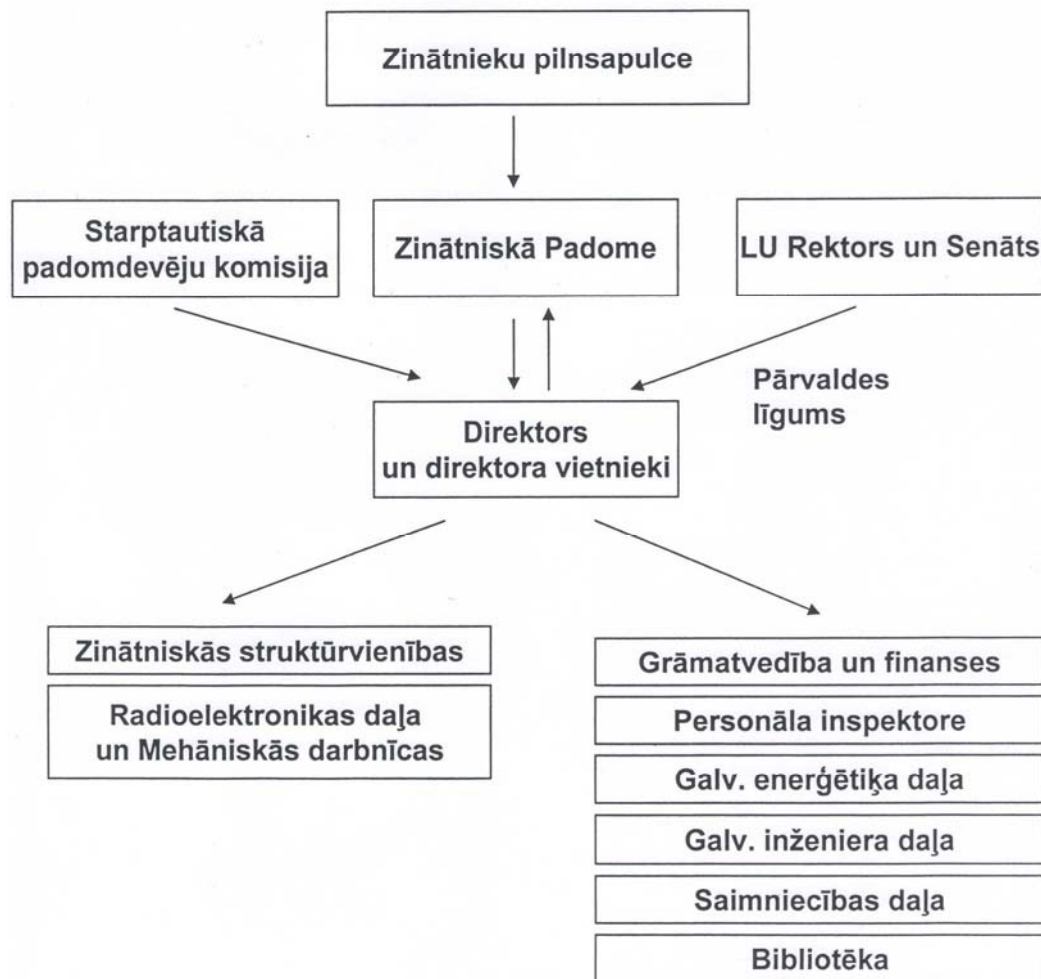
LU Cietvielu fizikas institūta vadības struktūra ir pievienota.

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2006.gada 15. maijā

LU CIETVIELU FIZIKAS INSTITŪTA VADĪBAS STRUKTŪRA



4. ZIŅAS PAR ZINĀTNISKĀS DARBĪBAS REZULTĀTIEM 2006.GADĀ

4.1. Īstenotie pētījumu projekti un to rezultāti

4.1.1. Īstenoto starptautisko projektu (tai skaitā Eiropas Savienības Ietvarprogrammu izcilības tīkli (*network of excellence*), integrētie projekti vai mērķorientētie zinātniskie projekti (*STREP, EUREKA, COST, INTAS, NATO projekti*) skaits un akronīms vai nosaukums.

EK 5.un 6.Ietvaru programmas projekti 2006.gadā: 6

1. STRP project „Nanoscale mapping and surface structural modification by joined use of x-ray microbeams and tip assisted local defection” X-TIP;
2. Collective Research Project „Removal of Hazardous Substances in Electronics”;
3. Network of Excellence „Multifunction and Integrated Piezoelectric Devices”;
4. EURATOM project „ Investigation of metal ions in fusion plasmas using emission spectroscopy”;
5. EURATOM project „Development of prototipe radiation hard capacitance bolometer assamble based on ferroelectric materials”;
6. EURATOM project „Stohastization of Magnetic Fields and Magnetic Reconnection”;

COST projekti:

1. P8; Materials and Systems for Optical Data Storage and Processing;
2. D18; Lanthanide Chemistry for Diagnosis and Therapy.

Bilaterālā sadarbība:

Latvijas – Vācijas sadarbības projekts:

1. Akkumuliertes Lumineszens Dosimetr

Taivānas – Latvijas – Lietuvas sadarbības projekts:

1. Materials Research on Wide Band Group III Nitride Compounds for Advanced Light Emitters.

Latvijas – Francijas Osmozes programmas sadarbības projekti:

1. Molekulāro materiālu ierīču elektriskās īpašības un to izmantošana gāzes sensoriem piesārņojuma noteikšanai
2. Frekvenču dubultošanai piemērotu organisko molekulu optiskā orientēšana plānās polimēru kārtiņās.

Latvijas – ASV sadarbības projekts:

1. Nanostructured and crystalline ZnO and BN for light – emitting semiconduction applications

4.1.2. Valsts pētījumu programmu projekti, kuru īstenošanā piedalījusies zinātniskā institūcija.

Valsts pētījumu programma **materiālzinātnē** „Modernu funkcionālu materiālu mikroelektronikai, nanoelektronikai, fotonikai, biomedicīnai un konstruktīvo kompozītu, kā arī atbilstošo tehnoloģiju izstrāde”

LU CFI ir vadošā iestāde programmas izstrādē. 3 apakšprojekti no 6 tiek izstrādāti LU CFI:

1. „Perspektīvie neorganiskie materiāli fotonikai un enerģētikai”, vad. L.Skuja;
2. „Perspektīvie neorganiskie materiāli optoelektronikai un mikroelektronikai un modernās metodes struktūras pētījumos”, vad. M.Spriņģis
3. „Materiāli fotonikai un nanoelektronikai balstīti uz jauniem funkcionāliem savienojumiem”, vad. I.Muzikante

Valsts pētījumu programma **enerģētikā**. LU CFI ir vadošā iestāde programmas 3.projekta izstrādē par udeņraža enerģētiku, vad. J.Kleperis

4.1.3. Latvijas Zinātnes padomes finansēto projektu skaits: 25

- Bērziņa B.
05.1722 Gaismas izraisītie procesi platzonu nitrīdos un līdzīgos materiālos
- Bērziņš J.
05.1724 Eksperimentāli un teorētiski kodolu struktūras pētījumi normālos un ekstremālos apstākļos
- Kleperis J.
05.1712 Olfaktometrijas fizikālie principi un sensoru mikrosistēmas tās modelēšanai
- Kuzmins A.
05.1717 Modernā spektroskopiskā pieeja nanomateriālu struktūras pētījumos
- Kuzovkovs V.
05.1704 Nelīdzsvaroto procesu kinētika nesakārtotās cietvielās
- Lācis I.
04.1294 Stimulu un acu kustību ietekme uz redzes uztveri
- Maniks J.
05.1705 Robežvirsmu efekti nanostrukturētu materiālu mehāniskajās īpašībās
- Millers D.
05.1720 Defekti un elektroniskie ierosinājumi kompleksos oksīdos
- Mironova-
Ulmane Ņ.
05.1718 Dzelzs grupas jonu pētījumi neorganiskos un organiskos savienojumos ar optiskām un EPR metodēm
- Ozols A.
05.1719 Hologrāfiskais ieraksts un viļņu frontes inversija materiālos ar kompleksu fotorefrakciju
- Petrovs A.
05.1711 Ultradisperso (mazo) cietvielu daļiņu magnētisko īpašību pētījumi
- Purāns J.
05.1714 Rentģena absorbcijas spektroskopija, pārvarot pikometru barjeru
- Riekstiņa D.
05.1723 Pielietojamās kodolfizikas izmantošana apkārtējās vides un dažu fizikālu procesu pētījumos
- Rogulis U.
05.1709 Magnētisko rezonānšu spektroskopija: defektu struktūra vairākkomponentu fluorīdos
- Skuja L.
05.1715 Optisko īpašību, to optimizācijas un izmaiņas mehānismu pētījumi stiklveida materiālos ultravioletajai optikai un šķiedru gaismas vadiem

- Šternbergs A.
05.1864 Sintēzes procesu optimizācija, fizikālās īpašības un polarizācijas procesu mikromehānismi segnetoelektriķos ar dažādu struktūras sakārtotības pakāpi
- Tāle I.
05.1716 Defektu optiskā un termoaktivācijas spektroskopija platzonu aktivētos fluorīdu kristālos
- Tambergs J.
05.1707 Simetrijas un haosa koncepciju izmantošana kvantu sistēmu pētījumos
- Teteris J.
05.1721 Amorfiie halogēni kā hologrāfiskā ieraksta vide informācijai ar lielu blīvumu
- Truhins A.
05.1710 Lokalizētie un delokalizētie stāvokļi optiskos stiklos un stiklveidojošos kristālos ar plato aizliegtu zonu
- Lācis I.
Stimulu un acu kustību ietekme uz redzes uztveri
- Krūmiņš A.
Funkcionāli materiāli un nanotehnoloģijas mikroelektronikai un fotonikai
- Šternbergs A.
Nanomateriāli un nanotehnoloģijas

4.2. ZINĀTNISKĀS PUBLIKĀCIJAS

4.2.1. Zinātniskajā periodikā norādītu, zinātniskajā literatūrā un starptautiski pieejamās datu bāzes citētu zinātnisko publikāciju skaits un nosaukumi (SCI): 101

1. Yu.F. Zhukovskii, P. Balaya, E.A. Kotomin, and J. Maier, Evidence for interfacial-storage anomaly in nanocomposites for lithium batteries from first-principles simulations. – *Physical Review Letters*, 2006, **96**, 058302 (p. 1-4).
2. J. Carrasco, F. Illas, N. Lopez, E.A. Kotomin, Yu.F. Zhukovskii, R.A. Evarestov, Yu.A. Mastrikov, S. Piskunov, and J. Maier, First principles calculations of atomic and electronic structure of *F*-center in bulk and on the (001) surface of SrTiO₃. – *Physical Review B*, 2006, **73**, 064106 (p. 1-11).
3. V. Kashcheyevs, A. Aharony, and O. Entin-Wohlman, Applicability of the equations-of-motion technique for quantum dots. – *Physical Review B*, 2006, **73**, 125338 (p. 1-15).
4. D. Fuks, E.A. Kotomin, Yu.F. Zhukovskii, and A.M. Stoneham, Size and shape of three-dimensional Cu clusters on a MgO(001) substrate: Combined *ab initio* and thermodynamic approach. – *Physical Review B*, 2006, **74**, 115418 (p. 1-6).
5. D. Fuks, Yu.F. Zhukovskii, E.A. Kotomin, and D.E. Ellis, Metal film growth on regular and defective MgO(001) surface: A comparative *ab initio* simulation and thermodynamic study. – *Surface Science*, 2006, **600**, p. L99-L104.
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7. J. Jamnik, J.R. Kalnin, E.A. Kotomin, and J. Maier, Generalised Maxwell-Garnett equation: application to electrical and chemical transport. – *Physical Chemistry and Chemical Physics*, 2006, **8**, p. 1310-1314.
8. R.A. Evarestov, E.A. Kotomin, and Yu.F. Zhukovskii, DFT study of a single *F*-center in cubic SrTiO₃ perovskite. – *International Journal of Quantum Chemistry*, 2006, **106**, p. 2173-2183.
9. E.E. Tornau, V. Petrauskas, and G. Zvejnieks, Surface phase transitions at O and CO catalytic reaction on Pd(111). – *Catalysis Today*, **116**, p. 62-68.
10. E. Heifets, E.A. Kotomin, and V.A. Trepakov, Calculations for antiferrodistortive phase of SrTiO₃ perovskite: hybrid density functional study. – *Journal of Physics: Condensed Matter*, 2006, **18**, p. 4845-4851.

11. Yu.F. Zhukovskii, A.I. Popov, C. Balasubramanian, and S. Bellucci, Structural and electronic properties of single-walled AlN nanotubes of different chiralities and sizes. – *Journal of Physics: Condensed Matter*, 2006, **18**, p. S2045-S2054.
12. S. Bellucci, C. Balasubramanian, G. Cinque, A. Marcelli, M. Cestelli Guidi, M. Piccinini, A. I. Popov, A. Soldatov, and P. Onorato, Characterization of \square aterials nitride nanostructures by XANES and FTIR Spectroscopies with Synchrotron Radiation. – *Journal of Physics: Condensed Matter*, 2006, **18**, p. S2095-S2104.
13. R.I. Eglitis, H. Shi, and G. Borstel, *Ab initio* calculations of the BaF₂ bulk and surface F centres – *Journal of Physics: Condensed Matter*, 2006, **18**, p. 8367-8381.
14. V.N. Kuzovkov and W. von Niessen, Random walk approach to the analytic solution of random systems with multiplicative noise – The Anderson localization problem. – *Physica A*, 2006, **369**, p. 251-265.
15. A. Schröder, J. Fleig, D. Gryaznov, J. Maier, and W. Sitte, Quantitative model of electrochemical Ostwald ripening and its application to the time-dependent electrode potential of nanocrystalline metals. – *Journal of Physical Chemistry B*, 2006, **110**, p. 12274-12280.
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19. O. Dumbrajs, Y. Kominis, K.A. Avramides, K. Hizanidis, and J.L. Vomvoridis, Hamiltonian map description of electron dynamics in gyrotrons. – *IEEE Transactions on Plasma Science*, 2006, **34**, p. 673-680.
20. Z.C. Ioannidis, O. Dumbrajs, I.G. Tigelis, Eigenvalues and Ohmic losses in coaxial gyrotron cavity. – *IEEE Transactions on Plasma Science*, 2006, **34**, p. 1516-1522.
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24. D. Gryaznov, J. Fleig, and J. Maier, Numerical study of grain boundary diffusion in nanocrystalline materials including blocking space charges. – *Solid State Ionics*, 2006, **177**, p. 1583-1586.
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26. P. Galinetto, F. Rossella, G. Samoggia, V.A. Trepakov, E.A. Kotomin, E. Heifets, P. Markovin, and L. Jastrabik, Structural phase transition and photo-charge carrier transport in SrTiO₃. – *Ferroelectrics*, 2006, **337**, p. 179-188.
27. G. Zvejnicks, V.N. Kuzovkov, V. Petrauskas, and E.E. Tornau, Modelling of phase transitions and reaction at CO adsorption on oxygen precovered Pd (111). – *Applied Surface Science*, 2006, **252**, p. 5395-5398.
28. P. Balaya, A.J. Bhattacharyya, J. Jamnik, Yu.F. Zhukovskii, E.A. Kotomin, and J. Maier, Nano-ionics in the context of lithium batteries. – *Journal of Power Sources*, 2006, **159**, p. 171-178.
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4.2.3. Zinātniskās institūcijas izdotu starptautiski recenzētu periodisko zinātnisko izdevumu skaits un nosaukumi: 2

- Abstracts. 2nd Latvian conference „Functional mterials and nanotechnologies”, Riga, p.111, 2006.
- Book of Abstracts. „10th European conference on organised films”, Riga, p. 180, 2006.

4.2.4. Latvijas Zinātnes padomes atzītos zinātniskajos izdevumos publicēto zinātnisko publikāciju skaits un nosaukumi: 132

Publikāciju nosaukumus skatīt punktā 4.2.1. un 4.2.2.

4.3. DALĪBA ZINĀTNISKĀS KONFERENCĒS

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II. 13th International School on Microwave Electronics and Radiophysics (Saratov, Russia, January-February, 2006).

O. Dumbrajs, "Stochastic processes in gyrotrons". Abstracts: p. 77-78.

III. 2nd Latvian conference "Functional materials and nanotechnologies" (Riga, Latvia, March, 2006).

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3. N. Zaporina, V.N. Timofeev, D. Bocharov, R. Krutohvostov, and J. Grabis, "Studies of multi-component nanodisperse powders by electron microscopy". Abstracts: p. 81.
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V. The 4th International Conference "Information Technologies and Management", IT&M'2006 (Riga, Latvia, April, 2006).

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2. J.R. Kalnin, V.Bardacenko, and S. Hilkevics, "Fluctuation and control management". Abstracts: p. 14-16.
3. G. Ozolinsh and J.R. Kalnin, "Systems of Thinking for Research and development Policy Impact Assessment in Latvia" Abstracts: p. 16-17.
4. A. Gopeyenko, S. Piskunov, and Yu.N. Shunin "*Ab initio* calculations of atomic and electronic structure of pure and defective $PbZrO_3$ ". Abstracts: p. 18.

VI. 3rd IAEA Technical Meeting on ECRH Physics and Technology for ITER (Como, Italy, May, 2006).

Y. Kominis, O. Dumbrajs, K.A. Avramides, K. Hizanidis, and J.L. Vomvoridis, "Dynamics and output momentum spectrum of electrons under harmonic resonance in gyrotron resonators".

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1. Z.C. Ioannidis, O. Dumbrajs, and I.G. Tigelis, "Eigenvalues and Ohmic losses in coaxial gyrotron cavity". Abstracts: Nr 11.
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VIII. 5th European Workshop on Materials Models and Simulations for Nuclear Fuels, MMSNF-5 (Nice, France, June, 2006).

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2. E.A. Kotomin, N. Ashley, R. Grimes, P. van Uffelen, Yu. Mastrikov, Yu.F. Zhukovskii, and V.V. Rondinella, "Atomic scale modeling of nitride nuclear fuels".

IX. 33rd EPS Conference on Plasma Physics (Rome, Italy, June, 2006).

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N.A Zaporina, V.N. Timofeev, J.P. Grabis, and D. Bocharov, "Influence of synthesis conditions on morphology and structure of nanodisperse powders $SiC/Si_3N_4-Al_2O_3-Y_2O_3$ ".

XI. EFDA (EURATOM) Monitoring meeting on Modelling of Radiation Effects (Garching, Germany, June, 2006).

E.A. Kotomin, V.N. Kuzovkov, and Yu.F. Zhukovskii, "Modelling of defects and defect-induced processes".

XII. 8th International Conference on Computer Simulation of Radiation Effects in Solids, COSIRES'06 (Richland, WA, USA, June 2006).

1. Yu.F. Zhukovskii, E.A. Kotomin, Yu. Mastrikov, S. Piskunov, K.L. Tsemekhman, and D.E. Ellis, "*Ab initio* simulations of isolated *F* centers in cubic SrTiO₃ perovskite". Abstracts: p. 42.

2. Yu.F. Zhukovskii, D. Fuks, E.A. Kotomin, and D.E. Ellis, "Difference of metal film growth modes on perfect and defective MgO surface". Abstracts: p. 109.

XIII. 6th Europhysical Conference on Luminescent Detectors and Transformers of Ionizing Radiation LUMDETR 2006 (Lviv, Ukraine, June 2006).

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XIV. 13th International Meeting on Lithium Batteries, IMLB'06 (Biarritz, France, June 2006).

P. Balaya, Yu.F. Zhukovskii, E. Bekaert, M. Ménétrier, M. Dollé, H. Li, E.A. Kotomin, and J. Maier, "Interfacial lithium storage in nanocomposites: experimental and theoretical evidences". Abstracts: Nr 291.

XV. 18th Joint Russian-German Meeting on ECRH and Gyrotrons (Nizhny Novgorod-Moscow, Russia, June, 2006).

B. Pioczyk, G. Dammertz, O. Dumbrajs, G. Gantenbein, S. Illy, J. Jin, W. Leonhardt, G. Michel, O. Prinz, T. Rzesnicki, M. Schmid, and M. Thumm, "2MW, CW, 170 GHz Coaxial Cavity Gyrotron - experimental results with the pre-prototype and status".

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3. R. Grigalaitis, J. Banys, A. Brilingas, A. Sternberg, V. Zauls, and K. Bormanis. Polar Nano Regions in Ferroelectric Relaxors. Abstracts, p. 21.
4. E. Klotins Jr. Critical Dynamics in Nanoscale: Copmputing Solutions. Abstracts, p. 30.
5. E. Klotins, and M.Springis. Critical Dynamics in Nanoscale. Abstracts, p. 31.
6. M. Knite, A. Hill, V. Bovtun, V. Teteris, A. Solovjovs, V. Tupureina, G. Shakale, J. Zavickis, I. Aulika, B. Polakovs, S.J. Pas, S. Veljko, I. Klemenoks, J. Zicans, D. Erts, J. Petzelt, and A. Fuith. Polymer-Nanostructured Carbon Composite as Multifunctional Sensor Materials – Design, Processing and Properties. Abstracts, p. 32.
7. A. Krumins. Nanomaterials in the New Physics Curriculum at University of Latvia. Abstracts, p. 35.
8. R. Krutohvostovs, K. Kundzins, and I. Shorubalko. Electron Beam Direct Writing of 2D Structures for Optical Devices. Abstracts, p. 36.
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10. A. Mishnev, and E. Ivanovskis. X-ray Line Profile Analysis of Nanostructured Oxytocin. Abstracts, p. 48.
11. M. Ozolinsh, and G. Ikaunieks. Dynamics of Eye Aberration Detectrd by High-Speed Hartmann-Shack Aberrometer. Abstracts, p. 54.
12. A. Pastare, I. Pastare, K. Didriksone, K. Kundzinsh, J. Svirks, A. Viksna, and D. Erts. Formation of Nanoporous Anodized Aluminium Oxide and Pore Filling. Abstracts, p. 56.
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15. A. Sternberg, and I. Muzikante. National Research Programme of Latvia in Materials Sciences. Abstracts, p. 70.
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2. R. Grigalaitis, J. Banys, A. Brilingas, K. Bormanis, A. Sternberg, and V. Zauls. Dielectric Properties and Distribution of Relaxation Times of Mixed PMN-PSN Ceramics. Programme and Abstracts, P29.
3. K. Bormanis, A.I. Burkhanov, V.N. Nesterov, A. Kalvane, M. Dambekalne, M. Antonova, M. Livinsh, M. Kalnberga, and A. Sternberg. Low and Infra-Low Frequency Dielectric Spectroscopy of Layered Perovskite Ceramics. Programme and Abstracts, P33.

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2. N. Mironova-Ulmane, A. Kuzmin, V. Skvortsova, U. Ulmanis, I. Sildos, Optical properties of solid solution $Ni_cMg_{1-c}O$ International conference, pp. 93- 95.
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2. J.Porins, A.Ozols, P.Onufrijevs. *Nanosecond and picosecond pulse transmission in optical fibres*. Abstracts, p. 83.

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2. A.Kristins. *Operation with Remote Objects Based on TCP/IP Communication Protocol*. P.35.

4.4. VEIKTIE LĪGUMDARBI**4.4.1. Līgumdarbi ar Valsts iestādēm un Universitātēm: 14**

Nr.	Projekta nosaukums	Projekta vadītājs	Finansējuma apjoms <u>2006.gadā</u> <u>(bez PVN 18%)</u>	Pasūtītājs
1	Sniegt konsultācijas, sagatavojot informāciju Latvijas uzņēmējiem par Eiropas Parlamenta un Padomes direktīvas 2002/95/EK "Par dažu bīstamu vielu izmantošanas ierobežošanu elektriskās un elektroniskās iekārtās" ieviešanu.	A.Lūsis	6779.66	LR Ekonomikas ministrija
2	Opto- ķīmisko sensoru izstrāde uz amorfo halkogenīdu pusvadītāju bāzes.	J.Teteris		RD Vides departaments
3	Par hologrammu izgatavošanu un citiem "Zinātniskās nakts "pasākumu izdevumiem.	A.Šternbergs	838.98	Latvijas Universitāte

4	Dubultu speciecirkņa dezaktivācijas rezultātā iegūto radioaktīvo atkritumu aktivitātes noteikšana ar gamma spektrometrijas metodi.	J.Bērziņš	2350.00	Bīstamo atkritumu pārvaldes valsts aģentūra
5	Hologrāfisko uzlīmju (ERAF) izgatavošana	J.Teteris	100.00	Rīgas Tehniskā Universitāte
6	Hologrāfiskais ieraksts, presformas un hologrāfisko uzlīmju izgatavošana.	J.Teteris	480.00	Banku augstskola
7	Lietotāju atslēgas.	A.Kristiņš	317.50	Latvijas vides, ģeoloģijas un meteoroloģijas aģentūra
8	Principiālo shēmu modificēšana, optimizācija un spiesto plašu tehnoloģijas izstrādāšana platēm EL2-1A un EL2-2A.	A.Kristiņš	278.60	Rīgas Tehniskā Universitāte
9	Ģeoloģisko paraugu attēlu iegūšana un kvalitatīva ķīmiskā analīze.	R.Krutohovstovs	84.74	Latvijas Universitāte
10	Titāna sacensību āķu un kāpņu remonts.	J.Katkēvičš	75.00	Latvijas ugunsdzēsības sporta federācija
11	Traktora T-28 bremžu cilindra izgatavošana.	J.Katkēvičš	110.00	VAS "Latvijas dzelzceļš"
12	Vakumsūkņa metāla konstrukciju metināšana un vakumkameras krāsns remonts.	J.Katkēvičš	220.00	Latvijas Universitāte
13	Metāla konstrukcijas.	J.Katkēvičš	380.00	Rīgas Tehniskā Universitāte
14	Augstspiediena pāreja akvalangiem un sajūga kluči.	J.Katkēvičš	180.00	Valsts Ugunsdzēsības un glābšanas dienests

4.4.2. Līgumdarbi ar piesaistītā privātā sektora finansējumu: 30

Nr.	Projekta nosaukums	Projekta vadītājs	Finansējuma apjoms 2006.gadā (bez PVN 18%)	Pasūtītājs
1	Hologrāfiskais ieraksts.	J.Teteris	1275.00	SIA "Dardedze hologrāfija"
2	Optiskā mikroskopija un mikrociētības mērījumi.	J.Maniks	4780.00	A/S "Sidrabe"
3	Piekļuves sistēmas elektronisko bloku-kontrolieru izgatavošana un piegāde rīgā, Republikas laukumā 2.	A.Kristiņš	418.90	SIA "Augstceltne"
4	Izstrādāt un izgatavot LR Zemkopības ministrijas administratīvās ēkas cauklaižu kontrolierus.	A.Kristiņš	954.50	SIA "Augstceltne"
5	Identifikācijas poga ar turētāju.	A.Kristiņš	419.00	SIA "BaltControl"

6	Izstrādāt, izgatavot un uzstādīt datorizētu caurlaides, apsardzes un signalizācijas sistēmu "Latvijas Kuģniecībai".	A.Kristiņš	3205.00	SIA "Apollo AS"
7	Izstrādāt, izgatavot un piegādāt darba laika uzskaites sistēmu Rīgā, Jēkabpils ielā 12.	A.Kristiņš	525.00	SIA "VAIDE"
8	Lietotāja atslēgas.	A.Kristiņš	95.97	A/S "Latvijas kuģniecība"
9	Divportu atmiņa.	A.Kristiņš	88.00	SIA "VEF TELEKOM"
10	Izstrādāt un izgatavot darba laika uzskaites sistēmu SIA "Flexoplastic".	A.Kristiņš	739.05	SIA "Flexoplastic"
11	Jaudas transformatoru kontaktoru pārbaudes iekārtas profilaktiskais remonts un verifikācija.	A.Kristiņš	25.00	SIA "Energoremonts Rīga"
12	Jaudas transformatoru kontaktoru pārbaudes iekārtas remonts.	A.Kristiņš	30.00	A/S "Augstsprieguma tīkls"
13	"LatRosTrans"apsardzes un signalizācijas programmatūras instalācijas diska izstrāde un remonts.	A.Kristiņš	759.12	SIA "Alarm Lat"
14	Signalizācijas korpusu augstfrekvences magnētiska uzņēmība.	A.Petrovs	423.73	SIA "Centrs Autoloks"
15	Stiklu paraugu kvalitatīva ķīmiskā analīze.	R.Krutohovostovs	30.00	SIA "GroGlass"
16	Pārtikas ražošanas iekārtu tehniskie uzlabojumi.	J.Katkēvičš	5366.92	SIA "LIDO"
17	Ekspērimētālie darbi celtniecības tehnikai.	J.Katkēvičš	2796.52	SIA "LX GRUPA"
18	Jaunu automātisku iekārtu izstrāde un izgatavošana.	J.Katkēvičš	4180.37	SIA "Stendera ziepju fabrika"
19	Automāšīnu motoru paaugstinātas aizsardzības mezgli.	J.Katkēvičš	1780.00	SIA "Mūsu motors Rīga"
20	Ekspērimētālās mēbeļu savienojumu konstrukcijas.	J.Katkēvičš	1308.00	SIA "Ansona mēbeļu fabrika"
21	Automātisko durvju un starpsienu konstrukcijas.	J.Katkēvičš	1468.50	SIA "Tehnodizains"
22	SF-1 un SF-2 modeļu skaidrās naudas glabāšanas atviktņu ar laika aizturi uz atvēršanu remonts un modernizācija.	J.Katkēvičš	517.42	A/S "LATVIJAS KRĀJBANKA"
23	Automāšīnu motoru paaugstinātas aizsardzības mezgli.	J.Katkēvičš	630.00	SIA "SIGNĀLS"
24	Pakāpienu izgatavošanas eksperimentālie stendi.	J.Katkēvičš	772.00	SIA "BETAREKS"
25	Riepu pārbaudes stenda paraugs.	J.Katkēvičš	1781.00	SIA "Marathon Ltd"
26	Saiņošanas līnijas papildinājumi.	J.Katkēvičš	2554.00	Monilaite-Thomeko OY fil. Latvijā

27	Servisa mezglu izstrāde un izgatavošana.	J.Katkēvičš	630.00	SIA "EVA - SAT"
28	Autotransporta numura izgatavošanas presforma.	J.Katkēvičš	150.00	SIA "LATSIGN"
29	Ēdināšanas līnijas uzlabošana.	J.Katkēvičš	498.00	SIA "BARGI"
30	Eksperimentālās mēbeļu savienojumu konstrukcijas.	J.Katkēvičš	359.97	SIA "MAROKA"
	Opertīvi veikt eksperimentālo un zinātniski tehnisko darbu izstrādāšanu un izgatavošanu.	J.Katkēvičš	2324.25	<u>u.c.</u>

4.4.3. Tirgus orientēto projektu un pašvaldību pasūtījumu skaits: 18

Nr.	Projekta nosaukums	Projekta vadītājs	Izpildes termiņš (dd.mm.gg. - dd.mm.gg.)	Finansējuma apjoms 2006.gadā
1	Struktūra, stabilitāte un faktori, kas ietekmē lantanīdu helātu efektivitāti saistībā ar megnētiskās rezonances tomogrāfiju (MRT).	J.Purāns	01.02.01-31.01.06	938 LVL
2	Mikromehānisko metožu izstrāde un iekārtas izgatavošana plānu plazmas pārklājumu tehnoloģijas uzlabošanai.	F.Muktepāvela	31.01.05-31.01.06	675 LVL
3	Drošības elementu izstrāde un ieviešana varavīkšņu hologrāfiskajās uzlīmēs.	J.Teteris	01.02.05-31.01.06	750 LVL
4	Starptautiskās sadarbības projektu realizācijas nodrošināšana ES perspektīvajās nozarēs, pielietojot jaunākās informācijas tehnoloģijas.	J.Kļaviņš	11.04.05-10.04.06	740 LVL
5	COST P8 Materiāli un sistēmas optisko datu glabāšanai un apstrādei.	J.Teteris	01.02.04.-31.05.06.	
6	Izstrādāt un ieviest ražošanā stiklplastu metalizācijas tehnoloģiju un elektrovadāmības mērījumu metodiku stiklplastu pārklājumiem.	V.Eglītis	09.11.05-08.11.06	4650 LVL
7	Ēku energoefektivitātes paaugstināšanas, izmantojot modernos siltināšanas materiālus, izvērtējums, strauji pieaugošu energoresursu izmaksu apstākļos.	J.Kļaviņš	10.11.05-09.11.06	3490 LVL
8	Fāzu asimetrijas izpēte elektrodzinēju starta procesā un kontroliera vadīta startēšanas iekārtas izstrāde.	J.Zvirgzds	10.11.05-12.07.06	6300 LVL
9	Bezkontakta datu pārraides procesu izpēte un identifikācijas sistēmas izveide.	A.Kristiņš	05.12.05-07.08.06	6062.50 LVL
10	Frekvences pārveidošanas procesa izpēte un tā vadības kontroliera izstrāde.	M.Ozoliņš	01.12.05-31.07.06	6350 LVL

11	Siltuma aizvadīšanas procesu izpēte tiristoru radiatoros, to projektēšana un izgatavošanas tehnoloģijas izstrāde.	Ē.Birks	10.10.05-12.06.06	5475 LVL
12	MOCVD tehnoloģijas izstrāde III elementu grupas nitrīdu plāno kārtiņu iegūšanai ultravioletiem gaismas emiteriem.	I.Tāle	01.12.05-31.05.06	2000 LVL
13	Izstrādāt un ieviest optometrijas praksē jaunu acs fundusu izmaiņu mērīšanas metodiku.	P.Cikmačs	23.11.05-22.11.06	4900 LVL
14	Izstrādāt jaunas bezsvina lodēšanas tehnoloģijas, lodes materiālus un sakausējumus un testu metodes lodējumu un lodes materiālu pārbaudei.	M.Spriņģis	23.11.05-22.11.06	4800 LVL
15	Ūdeņraža degvielas elementa, kā alternatīvā energonesēja, demenstrācijas maketa izstrāde un izgatavošana, izmantošanai degvielas krīzes situācijā.	J.Kleperis	01.12.05-30.11.06	4900 LVL
16	Impulsu un augstfrekvences traucējumu izpēte un tīkla filtra izstrāde.	Ē.Birks	01.03.06-31.10.06	8350 LVL
17	Organisko fluoroforu luminiscences pētījumi un optimālās optiskās mērījumu shēmas un signāla apstrādes algoritma noteikšana fluorimetra izstrādei.	B.Bērziņa	01.04.06-01.02.07	2450 LVL
18	Elektriskā tīkla trokšņu izpēte un mēriekārtas izstrāde.	A.Kristiņš	15.04.06-12.12.06	5500 LVL

4.4.4.To *Interreg, Life, EUREKA* vai Eiropas Savienības struktūrfondu lietišķo pētījumu atklātā projektu konkursa projektu skaits un nosaukumi, kuros piedalās zinātniskā institūcija.

Nr. p.k.	Projekta identifikācijas numurs un nosaukums	Vadītājs
1.	VPD1/RAF/CFLA/05/APK/2.5.1./000064/031 „Jauni materiāli radiācijas dozimetrijā”	B.Bērziņa
2.	VPD1/RAF/CFLA/05/APK/2.5.1./000067/034 „Platzonu materiālu MOCVD tehnoloģijas izstrāde un izpēte ultravioletiem gaismas emiteriem”	I.Tāle
3.	VPD1/ERAF/CFLA/05/APK/2.5.1./000065/032 „Kontroliera vadība gaisa kompresoru stacijai”	J.Zvirgzds
4.	VPD1/ERAF/CFLA/05/APK/2.5.1./000066/033 „Jaunu materiālu un elektrotehnoloģiju datorvadības programmatūras izstrāde ūdeņraža enerģētikas sistēmām”	J.Kleperis
5.	VPD1/ERAF/CFLA/05/APK/2.5.1./000057/029 „Hologrāfisko materiālu un tehnoloģiju izstrāde un ieviešana”	J.Teteris

4.5. ZINĀTNISKAJĀ INSTITŪCIJĀ IZSTRĀDĀTO BAKALaura, MAĢISTRA UN PROMOCIJAS DARBU SKAITS UN NOSAUKUMI

2006.gadā izstrādātie bakalaura darbi LU CFI

Nr. p.k.	Vārds Uzvārds	Bakalaura darba tēma	Darba vadītājs
1.	Dainis Dinsbergs	Bella nevienādības klasiskajā un kvantu mehānikā	Dr.h.phys. J.Tambergs
2.	Aleksejs Ivanovs	Segnetoelektrisko plānu kārtiņu pētījumi ar skanējošo elektronu mikroskopu	Mag.phys. R.Krutohovostovs
3.	Elina Laizāne	Azobenzolu molekulu optiski izraisīto īpašību pētījumi plānās kārtiņas un šķīdumos	Dr.h.phys. I.Muzikante
4.	Guntis Mārciņš	Gallija nitrīda plāno kārtiņu iegūšana	Dr.h.phys. I.Tāle
5.	Gundars Ošenijs	AlN nanopulvera spektrālās īpašības	Dr.h.phys. B.Bērziņa
6.	Elīna Tjutjunnika	AlN nanoadatu un nanostieņu spektrālās īpašības	Dr.h.phys. B.Bērziņa
7.	Ieva Valdate-Kalēja	Slīdēšana pa graudu robežām un tās ietekme uz polikristāliskā Zn mehāriskajām īpašībām	Dr.phys.F.Muktepāvela
8.	Aivars Vembris	Hromofora molekulu optiskās orientēšanas un dezorientēšanas procesa pētījumi viesu-saimnieka (host-guest) sistēma – DMABI-PMMA	Dr.phys. M.Rutkis

2006.gadā izstrādātie maģistru darbi LU CFI

Nr. p.k.	Vārds Uzvārds	Maģistra darba tēma	Darba vadītājs
1.	Dmitrijs Bočarovs	Rentgenabsorbcijas spektru kvantu ķīmiskā interpretācija perovskīta tipa savienojumos	Dr.phys. A.Kuzmins
2.	Līga Brikmane	Foto- un termostimulētie procesi daudzkomponenšu sistēmās	Dr.h.phys. M.Spriņģis
3.	Andris Slišāns	Oksi fluorīdu kompozītu pētījumi	Dr.h.phys. U.Rogulis

2006.gadā izstrādātie promocijas darbi LU CFI

Nr. p.k.	Vārds Uzvārds	Maģistra darba tēma	Darba vadītājs
1.	Deniss Grjaznovs	Difūzijas matemātiskā modelēšana nanokristālu materiālos	Dr.h.phys. J.Kotomins

4.6. CITA AR ZINĀTNISKO DARBĪBU SAISTĪTA INFORMĀCIJA

2006.g. par Latvijas Zinātņu Akadēmijas korespondētājlocekli fizikā ir ievēlēta LU CFI laboratorijas vadītāja Dr.habil,phys. Inta Muzikante

LZA jauno zinātnieku balvu Fizikas un tehniskās zinātnēs 2006.g. ir ieguvis LU CFI doktorants Anatolijs Šarakovskis.

LZA par nozīmīgākajiem sasniegumiem Latvijas zinātnē 2006.gadā atzinusi sekojošos:

- izveidoti jauna tipa efektīvi luminiscentētie detektoru materiāli, kurus izmanto skābekļa daudzuma noteikšanai, Dr.Larisa Grigorjeva, Dr. Donats Millers, Mg. Krišjānis Šmits, LU Cietvielu fizikas institūts
- izstrādāta jauna, ietilpīgāka optiskās atmiņas ierīce, kas sastāv no vairāku volframātu plānām kārtiņām, LZA kor.loc., Aleksejs Kuzmins, Dr. Roberts Kalendarjovs, LU Cietvielu fizikas institūts (Izraksts no LZA 2007.gada gadagrāmatas)

4.7. CITA INSTITŪTAM BŪTISKA INFORMĀCIJA

2006.gadā virs LU Cietvielu fizikas institūta galvenās ēkas piebūves tika izbūvēta Konferenču zāle (120m²). Zālē katru nedēļu pirmdienās notiek LU CFI zinātniskie semināri (atbildīgais prof. A.Krūmiņš)

Zālē 2006.gadā notika trīs starptautiski pasākumi:

- Baltijas jūras valstu konference „Funkcionāli materiāli un nanotehnoloģijas”, 27.-29.marts (Dr.A.Šternbergs);
- EFDA Remote Participation Workshop (EURATOM projekts) 20.-21.jūnijs (Dr.M.Kundziņš)
- ERA-NET seminārs „Modern Trends in MAterials Science and Technology”11.-12.oktobris Semināru atklāja Ministru prezidents A.Kalvītis (Dr. A.Šternbergs)

Bez tam Institūta darbinieki 2006.gadā organizēja:

- 10.Eiropas konferenci par plānām kārtiņām 21.-24.augusts (Dr.I.Muzikante)
- LU Cietvielu fizikas institūta 22.zinātnisko konferenci 29.-30.marts (Dr.A.Krūmiņš)

2006.gadā papildinājās doktorantu un jauno zinātnieku skaits Institūtā:

- institūtā sāka strādāt divi doktoranti no Daugavpils Universitātes (Ē.Šļedevskis un A.Gerbreders)
- fizikas doktorantūrā LU iestājās D.Bočarovs un M.Šorohovs
- jauno zinātnieku pozīcijas 2006.gadā ieguva V.Ogorodņiks un M.Kundziņš

Izmantojot ERAF finansējumu lietišķiem pētījumiem un IZM līdzfinansējumu starptautiskiem projektiem 2006.gadā ievērojami izdevies uzlabot Institūta pētniecisko un tehnoloģisko aparāturu.

5. PĀRSKATS PAR SAŅEMTO FINANSĒJUMU UN TĀ IZLIETOJUMU

PUBLISKAIS PĀRSKATS			
IEŅĒMUMI		IZDEVUMI	
	2006.gadā		2006.gadā
ERAF2 Tāle	40000	legādāti P/L	385275
ERAF-2 Zvirgzds	47688	Materiāli	97942
ERAF-2 Teteris	56391	Literatūras iegāde	4658
ERAF-2 Bērziņa	43427	Par pakalpojumiem	58052
ERAF-2 Kleperis	47424		
Līgumdarbi	61963		
LZP finansējums	247806	Darba alga ar DD soc. nodokli	951798
TPP līgumdarbi	83628	Komunālie maksājumi	25868
Ekspertiem	2124		
		Sakaru pakalpojumi	14106
		Kancelejas preces, arī konferencēm	9988
EK, EK līgumdarbi, konfer.	148953	Saimnieciskie izd.	34884
Materiālzinātne, enerģētika	228294	Juristu pakalp., auditi	5986
Investīcijas	169000	Kursi, semin., prezent., rekl.	5178
		Komandējumi	116527
Bāzes finansējums	281368	PVN nod.	55620
Līdzfinansējums	110824	Nekust. Īpašuma nod.	418
Saņemts par telpu īri	17310		
KOPĀ	1586200	KOPĀ	1766300

**Ienākumi LU CFI, tūkstošos Ls,
no 1993.gada līdz 2006.gadam**

Gads	Kopējais finansējums	Granti un Valsts programmas	Cits finansējums no budžeta	Līgumdarbi un TOP	Starptautiskie fondi	Telpu izīrēšana	ES Strukturālie fondi
1993	100.7	56.8	-	40.8	-	3.1	
1994	211.4	127.8	-	64.2	9.6	9.8	
1995	281	145.7	45	38.2	40	12.1	
1996	322.5	167.1	11.7	62.4	68	13.3	
1997	370	192.1	39	93	26	15.2	
1998	414 + 156	205.2	26	114	42	26.5	
1999	475.6+186	238.1	48.8	156.5	16.5	15.6	
2000	478.8 + 77	238.3	36.9	146.3	43	14.3	
2001	617.3	238.8	64.5	116.5	183	14.5	
2002	612.8	239.9	90.0	133.0	131	18.9	
2003	764.6	245.7	172.3	152.5	179	15.1	
2004	1 809	246.7	123.5	166.5	121.8	8.0	1142,5
2005	1 269,4	245,5	358,8 + 120)*	172,8	387,6	4,7	
2006	1 586,1	466,9	403,4 + 169)*	152,4	135,6	9,6	249,2

)* investīcijas ēkas rekonstrukcijai

2006.gadā:

- Sadaļā „Granti un Valsts programmas” parādās Valsts materiālzinātnes pētniecības programmas finansējums (228,3 tūkst. Ls);
- Sadaļā „Cits finansējums no budžeta” parādās Bāzes finansējums (281,4 tūkst. Ls).

6. BŪTISKĀKĀS PĀRMAIŅAS INSTITŪTA STRUKTŪRĀ 2006.GADĀ

Bāzes finansējuma saņemšana 2006.gadā palīdzēja palielināt vadošo zinātnieku atalgojumu. Ietaupījās finanšu līdzekļi zinātniskos projektos, kas tika izmantoti studentu finansēšanai. 2006.gadā zinātniskā darbā tika iesaistīti vairāk kā 40 studenti.

2006.gadā LU CFI atklātā projektu konkursā izcīnīja tiesības veikt piecus lietišķo pētījumu projektus par ERAF līdzekļiem (B.Bērziņa, I.Tāle, J.Zvirgzds, J.Teteris un J.Kleperis). Projektu realizācijai tika izveidotas pētnieciskās grupas, kas strādās līdz 2008.gadam, kad projekti būs jānodod.