



## Curriculum vitae Europass

### Informații personale

Nume / Prenume

**Kohr Mirela**

Adresă(e)

Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Departamentul de Matematică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România

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Naționalitate(-ități)

română

Data nașterii

Sex

F

### Locul de muncă vizat / Domeniul ocupațional

### Cadru didactic universitar

### Experiența profesională

Perioada

Octombrie 2006 - prezent

Funcția sau postul ocupat

**Profesor universitar**

Activități și responsabilități principale

Didactice și de cercetare

Numele și adresa angajatorului

Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România

Tipul activității sau sectorul de activitate

Învățământ universitar

Perioada

Octombrie 2000-Septembrie 2006

Funcția sau postul ocupat

**Conferențiar universitar**

Activități și responsabilități principale

Didactice și de cercetare

Numele și adresa angajatorului

Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România

Tipul activității sau sectorul de activitate

Învățământ universitar

Perioada

Octombrie 1997-Septembrie 2000

Funcția sau postul ocupat

**Lector universitar**

Activități și responsabilități principale

Didactice și de cercetare

Numele și adresa angajatorului

Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România

|                                                                      |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tipul activității sau sectorul de activitate                         | Învățământ universitar                                                                                                                                                                                                 |
| Perioada                                                             | Octombrie 1994-Septembrie 1997                                                                                                                                                                                         |
| Funcția sau postul ocupat                                            | <b>Asistent universitar</b>                                                                                                                                                                                            |
| Activități și responsabilități principale                            | Didactice și de cercetare                                                                                                                                                                                              |
| Numele și adresa angajatorului                                       | Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România                                                                                          |
| Tipul activității sau sectorul de activitate                         | Învățământ universitar                                                                                                                                                                                                 |
| Perioada                                                             | Octombrie 1991-Septembrie 1994                                                                                                                                                                                         |
| Funcția sau postul ocupat                                            | <b>Preparator</b>                                                                                                                                                                                                      |
| Activități și responsabilități principale                            | Didactice și de cercetare                                                                                                                                                                                              |
| Numele și adresa angajatorului                                       | Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Str. M. Kogălniceanu, nr. 1, 400084 Cluj-Napoca, România                                                                                          |
| Tipul activității sau sectorul de activitate                         | Învățământ universitar                                                                                                                                                                                                 |
| <b>Educație și formare</b>                                           |                                                                                                                                                                                                                        |
| Perioada                                                             | 1991-1996                                                                                                                                                                                                              |
| Calificarea / diploma obținută                                       | <b>Doctor în matematică</b><br>Teza de doctorat: <i>Metode Moderne ale Analizei Complexe și Analizei Numerice în Mecanica Fluidelor</i> , Conducător științific: Profesor dr. P.T. Mocanu, Membru al Academiei Române. |
| Disciplinele principale studiate / competențe profesionale dobândite | Mecanica Fluidelor, Analiză Complexă, Teoria Geometrică a Funcțiilor                                                                                                                                                   |
| Numele și tipul instituției de învățământ / furnizorului de formare  | Universitatea Babeș-Bolyai, Facultatea de Matematică și Informatică, Cluj-Napoca, România                                                                                                                              |
| Nivelul în clasificarea națională sau internațională                 |                                                                                                                                                                                                                        |
| Perioada                                                             | 1986-1991                                                                                                                                                                                                              |
| Calificarea / diploma obținută                                       | Licențiat în matematică                                                                                                                                                                                                |
| Disciplinele principale studiate / competențe profesionale dobândite | Matematici superioare                                                                                                                                                                                                  |
| Numele și tipul instituției de învățământ / furnizorului de formare  | Universitatea Babeș-Bolyai, Facultatea de Matematică, Cluj-Napoca, România                                                                                                                                             |
| Nivelul în clasificarea națională sau internațională                 |                                                                                                                                                                                                                        |
| <b>Aptitudini și competențe personale</b>                            |                                                                                                                                                                                                                        |
| Limba(i) maternă(e)                                                  | română                                                                                                                                                                                                                 |
| Limba(i) străină(e) cunoscută(e)                                     | <b>Engleză, Franceză (Rusă)</b>                                                                                                                                                                                        |

|                                                        |                                                                                                                                                                                                                                                     |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Competențe și abilități sociale                        | Capacitate de autoperfecționare, capacitate de asimilare de noi informații, abilități de comunicare cu studenții și colegii, munca în echipă, capacitate de adaptare în condiții de stres, competențe pe care le-am dobândit în profesie, dinamism. |
| Competențe și aptitudini organizatorice                | Lucru în echipă, abilități de comunicare și coordonare dobândite ca urmare a coordonării unor proiecte de cercetare (cinci proiecte de cercetare naționale), deschidere spre noutate, seriozitate.                                                  |
| Competențe și aptitudini tehnice                       | Aptitudini de utilizare a calculatorului și a produselor de birotică.                                                                                                                                                                               |
| Competențe și aptitudini de utilizare a calculatorului | LaTex, Microsoft Office (Word, Excel), Matlab, Mathematica, Windows.                                                                                                                                                                                |
| Competențe și aptitudini artistice                     | Pasionat de lectură, muzică, vizionări filme și piese de teatru.                                                                                                                                                                                    |
| Alte competențe și aptitudini                          | -                                                                                                                                                                                                                                                   |
| Permis(e) de conducere                                 | -                                                                                                                                                                                                                                                   |
| <b>Informații suplimentare</b>                         | -                                                                                                                                                                                                                                                   |
| <b>Anexe</b>                                           | <a href="http://www.math.ubbcluj.ro/~mkohr">www.math.ubbcluj.ro/~mkohr</a>                                                                                                                                                                          |

| Publicații, alte rezultate ale activității didactice și de cercetare științifică                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Număr                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Cărți, monografii, materiale de studiu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>6 (1 monografie publicată la Springer, 2026) +3 capitole carte</b> |
| Articole în reviste cotate ISI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>76</b>                                                             |
| Articole în proceedings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>5 (2 ISI)</b>                                                      |
| Alte articole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>62</b>                                                             |
| Participări la conferințe internaționale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Peste 60 (peste 20 invitate)</b>                                   |
| Participări la conferințe interne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>5</b>                                                              |
| Membru în comitete de organizare sau științifice ale unor conferințe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Mai mult de 10 internaționale</b>                                  |
| Brevete de invenție                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                     |
| Alte rezultate (denumirea)<br>Premiul G. Călugăreanu pentru teza de doctorat în anul 1996.<br>Premiul de <i>Exelență Științifică</i> pe anul 2004, acordat de Universitatea Babeș-Bolyai.<br>Premiul Universității Babeș-Bolyai pe anul 2004 pentru monografia <b>M. Kohr</b> , I. Pop, <i>Viscous Incompressible Flow for Low Reynolds Numbers</i> , WIT Press, Southampton (UK), 2004.<br><b>Premiul Spiru Haret al Academiei Române (pe anul 2004)</b> , acordat în 2006 pentru monografia: <b>M. Kohr</b> , I. Pop, <i>Viscous Incompressible Flow for Low Reynolds Numbers</i> , WIT Press, Southampton (UK), Boston, 2004.<br>Premiul de <i>Exelență Științifică/Cercetare</i> pe anul 2007, acordat de Universitatea Babeș-Bolyai.<br>Premiul pentru <i>Profesorul anului</i> 2010, acordat de Universitatea Babeș-Bolyai.<br>Diplomă de <i>Exelență Științifică</i> pentru anul universitar 2013/2014 acordată de Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.<br>Premiul <i>Excellentia</i> al CSUBB - Consiliul Studenților din Universitatea Babeș-Bolyai, 2022.<br>Premiul de <i>Exelență Științifică/Cercetare</i> pe anul 2022, acordat de Universitatea Babeș-Bolyai.<br><b>Director a 6 proiecte de cercetare științifică</b> |                                                                       |

## Domenii de interes științific

### **Mecanica Fluidelor (76); Ecuații cu Derivate Parțiale în conexiune cu Mecanica Fluidelor (35Q35):**

Mecanica fluidelor vâscoase incompresibile (76D):

Dinamica fluidelor vâscoase incompresibile la numere Reynolds mici (76D07)

Mișcări fluide vâscoase incompresibile în medii poroase (76S)

Metode teoretice și computaționale în mecanica fluidelor (76M):

Probleme cu valori pe frontieră pentru sisteme eliptice cu aplicații în mecanica fluidelor

***Teoria potențialului cu aplicații în mecanica fluidelor*** (31)

Metode integrale pe frontieră în mecanica fluidelor

Rezultate de existență, unicitate și dependență de date în spații Hölder,  $L^p$ , Sobolev sau Besov pentru probleme cu valori pe frontieră asociate ecuațiilor Stokes, Brinkman, Navier-Stokes, pe domenii Lyapunov, respectiv Lipschitz din  $\mathbf{R}^n$  sau ale varietăților Riemanniene compacte, cu aplicații în mecanica fluidelor.

Teoria potențialului pentru operatori pseudodiferențiali Brinkman pe domenii Lipschitz ale unor varietăți Riemanniene compacte. Probleme cu valori pe frontieră de tip Dirichlet-transmisie, Neumann-transmisie, Robin-transmisie și rezultate de existență și unicitate în spații  $L^p$  generale sau în spații Sobolev generale. Proprietăți ale operatorilor Fredholm asociați. Extensii la operatori pseudodiferențiali generali. Probleme neliniare la limită asociate sistemelor Stokes, Brinkman și Darcy-Forchheimer-Brinkman cu diverși termeni neliniari

*Metode variaționale și de teoria potențialului în analiza unor probleme eliptice cu valori pe frontieră pe domenii cu regularitate scăzută din  $\mathbf{R}^n$  și de pe varietăți Riemann cu sau fără bord*

Metoda soluțiilor fundamentale în mecanica fluidelor

Metoda element pe frontieră în mecanica fluidelor

Teoria fluidelor ideale compresibile (76N)

### **Analiză complexă:**

Teoria geometrică a funcțiilor de una și mai multe variabile complexe (30C, 32H):

Clase speciale de funcții univalente

Lanțuri Loewner și ecuația diferențială generalizată a lui Loewner pentru aplicații de mai multe variabile complexe

Extinderea unor rezultate clasice din teoria geometrică a funcțiilor de o variabilă complexă la cazul  $n$ -dimensional complex

## **Limbi străine cunoscute**

Engleză (scris, citit, vorbit)

Franceză (scris, citit, vorbit)

Rusă (citat)

## **Alte diplome și gradatii**

Premiul *G. Călugăreanu* pentru teza de doctorat în anul 1996.

Premiul de *Excelență Științifică* pe anul 2004, acordat de Universitatea Babeș-Bolyai.

Premiul Universității Babeș-Bolyai pe anul 2004 pentru monografia **M. Kohr**, I. Pop, *Viscous Incompressible Flow for Low Reynolds Numbers*, WIT Press: Computational Mechanics Publications, Southampton (UK), 2004, 449 pp. ISBN: 1-85312-991-7.

**Premiul Spiru Haret al Academiei Române** pe anul 2004, acordat în anul 2006 pentru monografia: **M. Kohr**, I. Pop, *Viscous Incompressible Flow for Low Reynolds Numbers*, WIT Press: Computational Mechanics Publications, Southampton (UK), Boston, 2004, 448 pp. ISBN: 1-85312-991-7.

Premiul de *Excelență Științifică* pe anul 2007, acordat de Universitatea Babeș-Bolyai.

Premiul pentru *Profesorul anului 2010*, acordat de Universitatea Babeș-Bolyai.

Diplomă de *Excelență Științifică* pentru anul universitar 2013/2014 acordată de Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai

Nominalizare *Premiile Excellentia* Consiliul Studentilor Universitatea Babeș-Bolyai 2021

**Premiul Excellentia Consiliul Studentilor Universitatea Babeș-Bolyai 2022**

Premiul de *Excelență Științifică/Cercetare* pe anul 2022, acordat de Universitatea Babeș-Bolyai (6.02.2023)

### Alte funcții deținute

Membru în Consiliul Profesorat al Facultății de Matematică și Informatică, Universitatea Babeș-Bolyai, în perioada 2004-2012

Membru în Consiliul de Administrație al Departamentului de Matematică al Facultății de Matematică și Informatică, 2012-2016.

### Membru în organizații științifice și profesionale

Expert evaluator CNCS (din 2008 -)

Societatea de Științe Matematice din România (din 1996)

EUROMECH (European Mechanical Society) (din 1996)

GAMM (German Society of Applied Mathematics and Mechanics) (din 1995)

Membru AMS (American Mathematical Society) (din 2006)

Fellow of Wessex Institute of Great Britain (din 2004)

Member of the Complex Variables and Potential Theory Group, International Society for Analysis, its

Applications and Computation (ISAAC)

<http://mathisaac.org/c/serverisaac/groups/cvpt.html>

**Expert extern - Comisia de specialitate MATEMATICĂ din cadrul CNCS (din iulie 2025-)**

### Activitate didactică

Activitatea didactică s-a concretizat în următoarele cursuri și seminarii:

- ***Geometric Function Theory in Several Complex Variables/ Teoria geometrică a funcțiilor de mai multe variabile complexe*** (curs (opțional) și seminar în limba engleză, master-grupa de Matematici Avansate, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- ***Mathematical Methods in Fluid Mechanics/Metode matematice în mecanica fluidelor*** (curs și seminar în limba engleză, master-grupa de Matematici Avansate, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- ***Potential Theory and Elliptic Boundary Value Problems*** (curs și seminar în limba engleză, master-grupa de Matematici Avansate, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- ***Capitole speciale de analiză complexă /Special topics in complex analysis*** (curs și seminar în limba engleză, Școala Doctorală de Matematică și Informatică, Universitatea Babeș- Bolyai)
- ***Capitole speciale de mecanica fluidelor /Special topics in fluid mechanics*** (curs și seminar în limba engleză, Școala Doctorală de Matematică și Informatică, , Universitatea Babeș- Bolyai)
- **Capitole Speciale de Mecanica Fluidelor** (curs și seminar în limba engleză, master-grupa de Modele Matematice în Mecanică și Astronomie și grupa de Matematică Aplicată, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- **Capitole Speciale de Mecanica Fluidelor** (curs, master-grupa Matematică Aplicată, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- **Mecanica Mediilor Continue** (curs, master-grupa Matematică Aplicată, Facultatea de Matematică și Informatică, Universitatea Babeș- Bolyai)
- **Mecanică Teoretică** (curs și seminar, anul II secția Matematică, anul II secția Matematică-Informatică, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai)
- **Mecanică** (curs și seminar, anul II secțiile Matematică, Matematică-Informatică, Matematică Aplicată, Universitatea Babeș-Bolyai)
- **Mecanică Teoretică (1)** (curs și seminar, anul II secția Matematică, anul III secția Matematică-Informatică, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai)
- **Mecanică Teoretică (2)** (curs și seminar, anul secția III Matematică, anul IV secția Matematică-Informatică, Universitatea Babeș-Bolyai)
- **Hidrodinamică și Transfer de Căldură** (curs și seminar, master-grupa de Mecanică și Astronomie, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai)
- **Metode Integrabile pe Frontieră în Mecanica Fluidelor** (curs și seminar, anul IV secția Matematică, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai)
- **Mecanică Analitică** (curs și seminar, anul II, secțiile Fizică și Fizică Tehnologică, Facultatea de Fizică, UBB)
- **Capitole Speciale de Matematică** (curs și seminar, anul II Facultatea de Chimie, Universitatea Babeș-Bolyai)
- **Cartografie** (seminar, anul I Facultatea de Geografie, Universitatea Babeș-Bolyai)

#### Manuale și monografii destinate studenților și tinerilor cercetători:

1. **M. Kohr**, *Capitole Speciale de Mecanică*, Presa Universitară Clujeană, 2005, 479 pag. ISBN: 973-610-386-2
2. **M. Kohr**, *Probleme Moderne în Mecanica Fluidelor Vâscoase* (2 vols), Presa Universitară Clujeană, Cluj-Napoca, 2000 (monografie): Vol.1, 255 pag. ISBN 973-595-077-4; Vol.2, 452 pag. ISBN 973-595-078-2.
3. A. Turcu, **M. Kohr-Ile**, *Culegere de Probleme de Mecanică Teoretică*, Lito Univ. Babeș-Bolyai, Cluj-Napoca, 1993, 342 pag.

#### Activități de coordonare științifică și didactică

Începând din 1997 am condus în fiecare an universitar în medie 1 lucrare de licență și 1 de dizertație.

#### Conducător de doctorat din 2007. Domeniul: Matematică. Școala Doctorală de Matematică și Informatică, Universitatea Babeș-Bolyai

##### Studenți doctoranzi care au primit titlul de doctor în Matematică

1. **Fericean Denisa - Gabriela**; The title of the PhD thesis: *Techniques of potential theory and geometric function theory in the study of some problems in fluid mechanics (Tehnici de teoria potențialului și de teoria geometrică a funcțiilor în studiul unor probleme din mecanica fluidelor)*. Public defense: November 29 2012, Babeș-Bolyai University.
2. **Gutt Robert**; The title of the PhD thesis: *Mixed boundary value problems for nonlinear systems in fluid mechanics and porous media (Probleme cu valori pe frontieră mixte pentru sisteme neliniare din mecanica fluidelor și a mediilor poroase)*; Public defense: Octombrie 31 2019, Babeș-Bolyai University.
3. **Manu Andra** (joint with **Prof. Dr. Gabriela Kohr**); The title of the PhD thesis: *Contributions in the theory of univalent functions of one and several complex variables (Contribuții în teoria funcțiilor univalente de una și mai multe variabile complexe)*. Public defense: September 16 2022, Babeș-Bolyai University.
4. **Albișoru Andrei Florin**; The title of the PhD thesis: *Contributions to the theory of elliptic boundary value problems and their applications in fluid mechanics (Contribuții în teoria problemelor eliptice cu valori pe frontieră și aplicații în mecanica fluidelor)*. Public defense: September 13 2024, Babeș-Bolyai University.
5. **Grigoriuc Eduard Ștefan** (joint with **Prof. Dr. Gabriela Kohr**); The title of the PhD thesis: *Modern Approaches in the Theory of Univalent Mappings in  $\mathbb{C}$  and  $\mathbb{C}^n$  (Abordări moderne în teoria funcțiilor univalente în  $\mathbb{C}$  și  $\mathbb{C}^n$ )*. Public defense: June 13 2025, Babeș-Bolyai University.

##### Studenți doctoranzi

1. **Papuc Ioan**, PhD student since 2019; Proposed topic of the PhD thesis: *Contributions to the mathematical theory of viscous fluid flows (Contribuții în teoria matematică a mișcărilor fluide vâscoase)*, Babeș-Bolyai University.
2. **Luca Eugenia**, PhD student since 2020; Proposed topic of the PhD thesis: *Stokes and Hele-Shaw flow problems: Teoretical and Computational Approaches*, Babeș-Bolyai University.
3. **Aron Mihai**; PhD student since 2022, Proposed topic of the PhD thesis: *Contributions in the Theory of Univalent Functions and Applications in Fluid Mechanics (Contribuții în teoria funcțiilor univalente și aplicații în mecanica fluidelor)*, Babeș-Bolyai University.
4. **Pastiu Anamaria**, PhD student since 2023; Proposed topic of the PhD thesis: *Contributions in the geometric function theory in complex Banach spaces (Contribuții în teoria gometrică a funcțiilor în spații Banach complexe)*, Babeș-Bolyai University.
5. **Andrei Gasparovici**, PhD student since 2023; Proposed topic of the PhD thesis: *Boundary value problems for anisotropic Navier-Stokes-type systems (Probleme cu valori pe frontieră pentru sisteme anizotrope de tip Navier-Stokes)*, Babeș-Bolyai University.
6. **Grindeanu Iulia**, PhD student since 2024; Proposed topic of the PhD thesis: *New approaches in the geometric function theory of one or several complex variables (Noi abordări în teoria geometrică a funcțiilor de una sau mai multe variabile complexe)*, Babeș-Bolyai University.
7. **Balazsi-Bardocz Rita-Maria**, PhD student since 2024; Proposed topic of the PhD thesis: *Mișcări fluide în medii poroase. Abordări teoretice și computaționale*, Babeș-Bolyai University.

#### Membru în comitete de organizare sau științifice ale unor conferințe internaționale

- Main organizer (with **G. Kohr**) of the session *Geometric Function Theory*, International Congress of Analysis and Applications (ISAAC), Berlin 2001.

- Member of the Organizing Committee Romanian-Finish Seminar on Complex Analysis, Cluj- Napoca, August 2005.
- Member in the Organizing Committee of International Conference on Complex Analysis dedicated on the 75<sup>th</sup> birthday of Professor Petru T. Mocanu, Cluj-Napoca, July 2006.
- Member in the Scientific Committee of the International Symposium on Geometric Function Theory and Applications (GFTA 2011), Cluj-Napoca, September 4-8, 2011
- Member in the Scientific Committee of the International Symposium on Geometric Function Theory and Applications (GFTA 2012), 27-31 August, 2012, Ohrid, Macedonia
- Member in the Organizing Committee of the ICAPM – 5th International Conference on Applications of Porous Media, August 25-28, 2013, Cluj-Napoca, Romania
- Member in the Organizing Committee and in the Program Committee of the 14<sup>th</sup> International Conference on Integral Methods in Science and Engineering (IMSE 2016), 25 - 29 July 2016, Padova, Italy
- Member in the Scientific Committee of the First Romanian Itinerant Seminar on Mathematical Analysis and its Applications, RISMAA-2018, Cluj-Napoca, April 20-21, 2018
- Member in the Scientific Committee of the Second Romanian Itinerant Seminar on Mathematical Analysis and its Applications, RISMAA-2019, Constanța, May 10-12, 2019
- **Organizer** (together with **Victor Nistor** (France) and **Mihai Putinar** (USA)) of the session *Integral Operators and Layer Potentials*, 9<sup>th</sup> Congress of Romanian Mathematicians, June 28-July 3, 2019, Galați, Romania.
- Member in the Scientific Committee of the Third Romanian Itinerant Seminar on Mathematical Analysis and its Applications, RISMAA-2020, Alba-Iulia, September 7-9, 2021; rescheduled (Covid-19): 10-12 September 2021
- Member in the Scientific Committee of the Fourth Romanian Itinerant Seminar on Mathematical Analysis and its Applications, Brașov, May 19-21, 2022
- **Member of the International Steering Committee** of the 16<sup>th</sup> International Conference on Integral Methods in Science and Engineering (IMSE 2020), 13 - 17 July 2020, St. Petesburg, Russia (new tentative dates 25-29 July 2022)
- **Organizer** (together with **Victor Nistor**, Metz, and **Pierre Bousquet**, Toulouse, France) of the special session *Analyse et Applications, XVeme colloque Franco-Roumain de mathématiques appliquées* (24-28 August 2020, Brașov, Romania, rescheduled ), Toulouse, France, 29 August – 2 September 2022.
- **Main organizer of the Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
on the ZOOM platform, December 1-3, 2021, at the Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca, Romania
- **Main organizer of the 2<sup>nd</sup> Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
on the ZOOM platform, December 1-3, 2022, at the Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca, Romania
- Member in the Scientific Committee of the Fifth Romanian Itinerant Seminar on Mathematical Analysis and its Applications, Craiova, May 26-28, 2023.
- Organizer (together with Lucian Beznea, Cezar Joița, and Eugen Mihăilescu) of the session **Real and Complex Analysis, Potential Theory**, The Tenth Congress of Romanian Mathematicians, June 30 - July 5, 2023, Pitești, Romania.
- **Organizer** (together with **Victor Nistor** (Metz, France) of the session *Integral Operators and Applications*, 10<sup>th</sup> Congress of Romanian Mathematicians, June 30-July 5, 2023, Pitești, Romania.
- **Main organizer of the 3<sup>rd</sup> Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
on the ZOOM platform, December 1-3, 2023, at the Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca, Romania
- Member in the Scientific Committee of the Sixth Romanian Itinerant Seminar on Mathematical Analysis and its Applications, Cluj-Napoca, May 30-31, 2024.
- Member in the Scientific Committee of the conference *Aspect'24 "Asymptotic Analysis & Spectral Theory"*,

September 23-27, 2024, Metz, France.

- **Main organizer: 4<sup>th</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr: Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
on the ZOOM, November 29-December 1, 2024, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania.
- Member in the Organizing Committee of the International Conference on Analysis, the 16<sup>th</sup> Romanian-Finnish Seminar, June 24-27, 2025, Alba-Iulia, Romania.
- **Main organizer: 5<sup>th</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr: Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
on the ZOOM, November 28-November 30, 2025, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania.

#### **Membru în comitete de organizare sau științifice ale unor conferințe naționale**

- Conferinței națională a Societății de Științe Matematice din România, Cluj-Napoca, 1998.
- Conferinței națională *Caius Iacob* de Mecanica Fluidelor, Cluj-Napoca, 1998.

#### **Membru în comitetul de redacție sau referent la reviste ISI**

Membru în comitetul de redacție al revistei *Studia (Mathematica)*, Univ. Babeş-Bolyai, Cluj-Napoca (din 2010)

Referent la: *Potential Analysis*, *Journal de Mathématiques Pures et Appliquées*, *Annali di Matematica Pura ed Applicata* (1923 -), *Bollettino dell'Unione Matematica Italiana*, *Journal of Engineering Mathematics*, *Journal of Mathematical Analysis and Applications*, *Analysis and Mathematical Physics*, *Mathematical Methods in the Applied Sciences*, *Complex Variables and Elliptic Equations*, *Results in Mathematics*, *Communications on Pure and Applied Analysis*, *ZAMM -Zeitschrift für Angewandte Mathematik und Mechanik*, *Engineering Analysis with Boundary Elements*, *International Journal for Numerical Methods in Fluids*, *Mathematical and Computer Modelling*, *Asymptotic Analysis*, *Arabian Journal for Science and Engineering*, *Rev. Roumaine Math. Pure Appl.*, *Carpathian Journal of Mathematics*, *Numerical Algorithms*, *Fixed Point Theory*, *Applicable Analysis*, *Mathematische Nachrichten*, *Boundary Value Problems*, *Transport in Porous Media*, *Acta Applicandae Math.*, *Chemical Engineering Science*

#### **Membru în comitetul de redacție sau referent la reviste BDI**

Membru în comitetul de redacție al revistei *Mathematica (Cluj)* (din 2016)

Referent la: *International Journal of Applied Mechanics and Engineering*, *Journal of Inequalities in Pure and Applied Mathematics*, *International Journal of Physical Sciences*, *International Journal of Mathematics and Mathematical Sciences*, *Journal of Applied Mathematics*, *Mathematica (Cluj)*, *Studia (Mathematica) Babeş-Bolyai University*, *Applications and Applied Mathematics: An International Journal (AAM)*  
Recenzent la *Mathematical Reviews* și *Zentralblatt für Mathematik* din 2000.

#### **Membru în comitetul de redacție sau referent la reviste naționale**

Membru în comitetul de redacție al revistei *Mathematica (Cluj)* (din 2016)

Membru în comitetul de redacție al revistei *Studia (Mathematica)*, Univ. Babeş-Bolyai, Cluj-Napoca (din 2010)

Referent la: *Mathematica (Cluj)*, *Studia (Mathematica) Babeş-Bolyai University*, *Carpathian Journal of Mathematics*, *Fixed Point Theory*

#### **Editor de volume publicate în edituri internaționale**

Editor of *Seminar on Mechanics*, Preprint 92(2), Babeş-Bolyai University, Cluj-Napoca, 1992.

Editor of the special issue of *Studia (Mathematica)*, Babeş-Bolyai University, **67**, No. 2, 2022, dedicated to the memory of **Professor Gabriela Kohr**.



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16. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Non-homogeneous Dirichlet-transmission problems for the anisotropic Stokes and Navier-Stokes systems in Lipschitz domains with transversal interfaces*, Calculus of Variations and Partial Differential Equations, **61**:198 (2022), 47 pag., DOI: 10.1007/s00526-022-02279-4.
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2. **M. Kohr**, M. Lanza de Cristoforis, W. L. Wendland, *Nonlinear Darcy-Forchheimer-Brinkman system with linear Robin boundary conditions in Lipschitz domains*, in: “Complex Analysis and Potential Theory with Applications” (T. Aliev Azeroglu, A.Golberg, S.Rogosin eds.), 111-124, Cambridge Scientific Publishers, 2014. ISBN 978-1-908106-40-7.
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1. **M. Kohr**, C. Pinte, W.L. Wendland, *Potential analysis for pseudodifferential matrix operators in Lipschitz domains on Riemannian manifolds. Applications to Brinkman operators*, Mathematica (Cluj), 54(77), No. 2 (2012), 159-176
2. **M. Kohr**, C. Pinte, W.L. Wendland, *On mapping properties of layer potential operators for Brinkman equations on Lipschitz domains in Riemannian manifolds*, Mathematica (Cluj), 52 (75), No. 1 (2010), 31-45.
3. **M. Kohr**, *A second-kind integral equation method for Stokes flow past smooth obstacles in a channel*, Mathematica (Cluj), 47(70), no. 2 (2005), 165-178.
4. **M. Kohr**, *The study of a Stokes flow by the boundary integral equation method*, Mathematica (Cluj), 45(68), 29-41, 2003.
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8. H. Hamada, G. Kohr, **M. Kohr**, *First order partial differential subordinations on bounded balanced pseudoconvex domains in  $\mathbb{C}^n$* , *Mathematica (Cluj)*, vol.41(64), nr.2, 1999, 161-175.
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10. **M. Kohr**, *A theoretical analysis for the interaction of two obstacles with cylindrical interfaces in a Stokes flow (I)*, *Mathematica (Cluj)*, vol.40(63), nr.2, 173-187, 1998.
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12. **M. Kohr-Ile**, G. Kohr, *Some sufficient conditions of uniform starlikeness, convexity and  $\alpha$  convexity for functions in the class  $C^1$* , *Studii și Cercetări Matematice (Mathematical Reports)*, vol.49, 77-84, 1997.
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1. **M. Kohr**, *Boundary value problem for the Stokes resolvent system*, *Analele Universității București, Seria Matematica*, vol. 55, No. 1, 65-78, 2006.
2. **M. Kohr**, *Boundary integral method for an oscillatory Stokes flow problem*, *Analele Universității București, Seria Matematica*, vol. 50, 115-122, 2001.
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5. G. Kohr, **M. Kohr-Ile**, *Partial differential subordinations for holomorphic mappings of several complex variables*, *Studia (Mathematica), Univ. Babeș-Bolyai*, vol.40, nr.4, 45-62, 1995.
6. M. Lupu, **M. Kohr-Ile**, *The application of (PQ)-analytic functions to study of an axially-symmetric and compressible jet*, *Studia (Mathematica), Univ. Babeș-Bolyai*, vol.38, nr.4, 81-93, 1993.
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**Alte articole**

1. **M. Kohr**, G.P. Raja Sekhar, W.L. Wendland, *Rigorous estimates for the 2D Oseen-Brinkman transmission problem in terms of the Stokes-Brinkman expansion*, *Berichte aus dem Institut für Angewandte Analysis und Numerische Simulation, Universität Stuttgart, Germany*, Preprint 2009/010, 20 pp.
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3. **M. Kohr**, W.L. Wendland, *The application of a fast multipole Galerkin boundary element method for the Stokes system* Bericht 2006/03 SFB404, Universität Stuttgart, Germany, 34 pp.

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- **M. Kohr**, S.E. Mikhailov, V. Nistor, W.L. Wendland, *Stationary Stokes and Navier-Stokes Equations with Variable Coefficients - Integral operators and Variational approaches* - Springer, Lecture Notes in Mathematics, 2026, XX, 765 pp. ISBN 978-3-031-98603-1. Due: 22 April 2026
- **M. Kohr**, I. Pop, *Viscous Incompressible Flow for Low Reynolds Numbers*, WIT Press: Computational Mechanics Publications, Southampton (UK), Boston, 2004, 448 pp. ISBN: 1-85312-991-7.

### Capitole de cărți publicate în edituri internaționale

1. **M. Kohr**, S.E. Mikhailov, W.L. Wendland, *Newtonian and single layer potentials for the Stokes system with  $L^\infty$  coefficients and the exterior Dirichlet problem*, In: Analysis as a Life. Dedicated to Prof. H. Begehr. S. Rogosin and A.O. Çelebi, eds. Springer (Birkhäuser), ISBN 978-3-030-02650-9, (2019), 237-260.
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1. **M. Kohr**, *Probleme Moderne în Mecanica Fluidelor Vâscoase* (2 vols), Presa Universitară Clujeană, Cluj-Napoca, 2000:  
vol.1, 255 pp. ISBN 973-595-077-4;  
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### Citări ale articolelor proprii

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H\_index SCOPUS=20

H\_index Google Scholar= 23

### Participări la programe de cercetare finanțate din sursă internațională

- În perioada **1999-2019** am efectuat vizite anuale de cercetare la University of Toronto, Department of Mathematics, suportate partial sau total din grantul: Natural Sciences and Engineering Research Council of Canada grant A9221, condus de Prof. Dr. Ian Graham
- Free University of Berlin, Department of Mathematics, June 1996, invited by Prof. H. Begehr;
- Wuerzburg University, Department of Mathematics, June 1996, invited by Prof. S. Ruscheweyh
- International Banach Center, Warsaw, April 1997, invited by Prof. J. Lawrynowicz
- Tokyo Denki University, Department of Mathematics, Tokyo, Japan, March-April 1999 (visiting professor), invited by Prof. K. Tsurumi
- University of Toronto, Department of Mathematics, July-August 1999 (visiting professor), invited by Prof. I. Graham
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- University of Toronto, Department of Mathematics, August 2003 (visiting professor), invited by Prof. I. Graham

- University of Toronto, Department of Mathematics, April-May 2004 (visiting professor), invited by Prof. I. Graham
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- University of Stuttgart, Institute for Applied Analysis and Numerical Simulation, November 2005 (visiting professor), invited by Prof. W.L. Wendland.
- University of Toronto, Department of Mathematics, August 2006 (visiting professor), invited by Prof. I. Graham
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- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, December 2008 (research visit), invited by Professor W.L. Wendland
- Università degli Studi di Roma "Tor Vergata", Dipartimento di Matematica, March 16-20, 2009 (research visit; invited by Professor Filippo Bracci)
- University of Toronto, Department of Mathematics, May 1 – May 30 2009 (research visit), invited by Prof. I. Graham
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, July 2009 (research visit), invited by Professor W.L. Wendland
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, August 2009 (research visit), invited by Professor W.L. Wendland
- University of Toronto, Department of Mathematics, April 21 – May 20 2010 (research visit), invited by Prof. I. Graham
- University of Padova, Department of Mathematics, June 19-25 2010 (research visit), invited by Prof. Massimo Lanza de Cristoforis
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, July 1 – July 6 (research visit), invited by Professor W.L. Wendland
- University of Toronto, Department of Mathematics, August 11-August 27, 2010 (research visit), invited by Prof. I. Graham
- University of Toronto, Department of Mathematics, May 8-June 5, 2011, Visiting Professor (research visit), invited by Prof. I. Graham
- University of Toronto, Department of Mathematics, April 23-May 14, 2012 (research visit), invited by Prof. I. Graham
- Research visit to University of Padova, Department of Mathematics, June 18 - June 22 2012, invited by Prof. Massimo Lanza de Cristoforis
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- University of Wuerzburg, Department of Mathematics, November 11-November 16, 2013 (research visit), invited by Prof. Oliver Roth.
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- University of Toronto, Department of Mathematics, August 5 - August 21 2014 (research visit), invited by Prof. I. Graham
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- University of Toronto, Department of Mathematics, August 17 – August 29 2015 (research visit), invited by Prof. I. Graham
- Brunel University London, Department of Mathematics, October 20 – October 30 2015 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Brunel University London, Department of Mathematics, February 2 – February 13 2016 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Brunel University London, Department of Mathematics, June 14 – June 18 2016 (research visit), invited by Prof. Sergey E. Mikhailov (partially supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Brunel University London, Department of Mathematics, February 6 – February 19 2017 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Brunel University London, Department of Mathematics, March 20 – March 27 2017 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Brunel University London, Department of Mathematics, February 4 – February 14 2018 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov)
- Université de Lorraine, Metz, France, September 22 – 18 October, 2024 (Invited Professor), invited by Prof. Victor Nistor, Université de Lorraine, Institut Elie Cartan de Lorraine, Metz (supported by the research project *Integral operators in solid and fluid mechanics*, financed by Université de Lorraine, France, 2024).

## **Participări la programe finanțate din sursă națională**

### **Membru al următoarelor granturi de cercetare:**

Codul CNCSU: 16, Anul: 1995, METODE DE APROXIMARE ANALITICĂ ȘI NUMERICĂ ÎN HIDRODINAMICĂ ȘI TRANSFER DE CALDURĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCSU: 945, Anul: 1996, METODE DE APROXIMARE ANALITICĂ ȘI NUMERICĂ ÎN HIDRODINAMICĂ ȘI TRANSFER DE CALDURĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCSU: 302, Anul: 1997, METODE DE APROXIMARE ANALITICĂ ȘI NUMERICĂ ÎN HIDRODINAMICĂ ȘI TRANSFER DE CALDURĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCSU: 174, Anul: 1998, METODE ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR ȘI ÎN TEORIA SISTEMELOR DINAMICE, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

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Codul CNCSU: 262, Anul: 2000, Tema nr. 75, STUDIUL UNOR PROBLEME DIN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ, SISTEMELOR DINAMICE ȘI TEORIA STABILITĂȚII, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCIS: 1059, Anul: 2001, Tema nr. 107, METODE ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ ȘI TEORIA SISTEMELOR DINAMICE CU APLICAȚII ÎN MECANICA CEREASCĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCIS: 51, Anul: 2002, Tema nr. 76, METODE ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ ȘI TEORIA SISTEMELOR DINAMICE CU APLICAȚII ÎN MECANICA CEREASCĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCIS: 139, Anul: 2003, Tema nr. 58, METODE ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ ȘI TEORIA SISTEMELOR DINAMICE CU APLICAȚII ÎN MECANICA CEREASCĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCIS: 324, Anul: 2004, Tema nr. 41, MODELĂRI ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ CU APLICAȚII ÎN MECANICA CEREASCĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Codul CNCIS: 324, Anul: 2005, Tema nr. 61, MODELĂRI ANALITICE ȘI NUMERICE ÎN MECANICA FLUIDELOR, TEORIA TRANSFERULUI DE CĂLDURĂ CU APLICAȚII ÎN MECANICA CEREASCĂ, Director de grant: Prof. dr. I. Pop, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Grant nr. 5010/1996, tema 950, cod CNCIS 350, cod program A17.2 : TEORIA GEOMETRICĂ A FUNCȚIILOR DE UNA SAU MAI MULTE VARIABLE COMPLEXE. Director de grant: Prof. dr. P.T. Mocanu, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

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Grant nr. 16/1998, cod CNCIS 171, tema 50: INEGALITĂȚI ȘI SUBORDONĂRI DIFERENȚIALE. OPERATORI INTEGRALI, CONVEXITATE ȘI STELARITATE. APLICAȚII. Director de grant: Prof. dr. P.T. Mocanu, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

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Cod CNCIS 310, tema 86, an 2000: INEGALITĂȚI ȘI SUBORDONĂRI DIFERENȚIALE. OPERATORI INTEGRALI, CONVEXITATE ȘI STELARITATE. APLICAȚII. Director de grant: Prof. dr. P.T. Mocanu, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

Grant PN-III-P4-PCE-2021-0993, cod PCE 69/2022 (2023-2025). Director de grant: Prof. dr. Teodor Groșan, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

➤ Grant tip A cod CNCIS **1472** (2007-2008): **PROBLEME MODERNE ÎN TEORIA FUNCȚIILOR UNIVALENTE DE UNA ȘI MAI MULTE VARIABLE COMPLEXE. APLICAȚII.** Director de grant: **Prof. dr. Gabriela Kohr**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai

➤ Grant CNCIS PN-II-ID cod **524** (2007-2010): **LANȚURI LOEWNER ȘI SUBORDONĂRI DIFERENȚIALE PENTRU FUNCȚII DE UNA ȘI MAI MULTE VARIABLE COMPLEXE. EXTINDERI CVASICONFORME ȘI APLICAȚII ÎN MECANICA FLUIDELOR.** Director de grant: Prof. dr. **Gabriela Kohr**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai

➤ Grant PN-II-ID-PCE-2011-3-0899 (2011-2016): **Geometric and analytic aspects of biholomorphic mappings in  $C^n$  and complex Banach spaces.** Director de grant: **Prof. dr. Gabriela Kohr**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai

### Participări la programe relevante finanțate din sursă internațională

- În perioada **1999-2019** am efectuat vizite anuale de cercetare la University of Toronto, Department of Mathematics, suportate partial sau total din grantul: **Natural Sciences and Engineering Research Council of Canada grant A9221**, director Prof. dr. Ian Graham.
- **Visiting Researcher** within the grant EP/M013545/1 (2015-2018): "*Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs*" from the EPSRC, UK. **Director Professor Sergey E. Mikhailov**, Brunel University London (UK)

- **Research project with Prof. Victor Nistor**, Université de Lorraine, Institut Elie Cartan de Lorraine, Metz: *Integral operators in solid and fluid mechanics*, financed by Université de Lorraine, France, 2024.

**Coordonări de programe finanțate din sursă națională**  
**Director al următoarelor granturi de cercetare**

**I. Grant de tip AT (2001-2002): METODE MATEMATICE ÎN MECANICA FLUIDELOR VÂSCOASE ȘI MECANICA CEREASCĂ**

Cod CNCISIS **190** Tema **7/2001**: Modele matematice în mecanica fluidelor vâskoase. Aplicații  
 Valoare fază (unică): 24.000 mii lei  
 Cod CNCISIS **7** Tema **27/2002**: Metode analitice și numerice în mecanica fluidelor vâskoase  
 Valoare fază (unică): 30.000 mii lei

**II. Grant tip A cod CNCISIS 336 (2004-2006): MODELE MATEMATICE ÎN MECANICA FLUIDELOR VÂSCOASE, TEORIA TRANSFERULUI DE CĂLDURĂ ȘI MECANICA CEREASCĂ. APLICAȚII**

Tema **28/2004**: Probleme de mișcare și strat limită studiate prin metode integrale pe frontieră  
 Valoare fază (unică): 95000 mii lei  
 Tema **42/2005**: Metode numerice și aproximative în studiul unor probleme din mecanica fluidelor vâskoase, teoria stratului limită și dinamica spațială  
 Valoare fază (unică): 11730 RON  
 Tema **33/2006**: Valoare fază (unică): 14720 RON

**III. Grant tip A cod CNCISIS 1470 (2007-2008): PROBLEME MODERNE DE MIȘCARE ȘI TRANSFER DE CĂLDURĂ ÎN FLUIDE VÂSCOASE ȘI MEDII POROASE. APLICAȚII**

Tema **6/2007**: Valoare fază (unică): 41400 RON  
 Tema **33/2008**: Valoare fază (unică): 45425 RON

**IV. Grant UEFISCSU-CNCISIS PN-II-ID cod 525 (2007-2010): STUDIUL UNOR MIȘCĂRI FLUIDE VÂSCOASE ÎN MEDII POROASE CU APLICAȚII ÎN BIOLOGIE ȘI MEDICINĂ**  
 Valoare totală: 160665,30 RON

**V. Grant PN-II-ID-PCE-2011-3-0994 (2011-2016): Probleme cu Valori pe Frontieră pentru Sisteme Eliptice pe Domenii Nenetede cu Aplicații în Mecanica Fluidelor (BOUNDARY VALUE PROBLEMS FOR ELLIPTIC SYSTEMS ON NON-SMOOTH DOMAINS WITH APPLICATIONS IN FLUID MECHANICS)**  
 Valoare totală: 467599 lei

**VI. Grant GSCE-30259/22.01.2015 pentru susținerea cercetării de excepție, 2015 (perioada de derulare 23.01.2015 – 22.01.2016), Universitatea Babeș-Bolyai: Analiza unor probleme neliniare cu valori pe frontieră. O abordare din perspectiva teoriei potențialului**  
 Valoare totală: 5000 lei

**VII. Granturi: AGC35124/31.10.2018, AGC35125/31.10.2018, AGC35126/31.10.2018, AGC35127/31.10.2018 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai (perioada de derulare 1.10.2018 – 30.09.2019).**

**VIII. Granturi: AGC33670/25.09.2019, AGC33549/19.09.2019 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai (perioada de derulare 1.10.2019 – 30.09.2020).**

**IX. Granturi: AGC33651/21.07.2022, AGC33652/21.07.2022, AGC33653/21.07.2022, AGC33654/21.07.2022, AGC33655/21.07.2022, AGC33656/21.07.2022 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai.**

**X. Granturi: AGC32703/09.06.2023, AGC32704/09.06.2023, AGC32705/09.06.2023, AGC32706/09.06.2023 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai.**

**XI.** Granturi: AGC32187/14.05.2024 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai.

**XII.** Granturi: AGC32040/27.05.2025, AGC32041/27.05.2025, AGC32042/27.05.2025, AGC32043/27.05.2025 pentru susținerea competitivității în cercetare în Universitatea Babeș-Bolyai.

### **Vizite didactice și de cercetare internaționale**

- Free University of Berlin, Department of Mathematics, June 1996, invited by Prof. H. Begehr.
- Wuerzburg University, Department of Mathematics, June 1996, invited by Prof. S. Ruscheweyh.
- International Banach Center, Warsaw, April 1997, invited by Prof. J. Lawrynowicz.
- Tokyo Denki University, Department of Mathematics, Tokyo, Japan, March-April 1999 (visiting professor), invited by Prof. K. Tsurumi.
- University of Toronto, Department of Mathematics, July-August 1999 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, March-April 2000 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, April-May 2001 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, May 2002 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, August 2003 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, April-May 2004 (visiting professor), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, April-May 2005 (visiting professor), invited by Prof. I. Graham.
- University of Stuttgart, Institute for Applied Analysis and Numerical Simulation, November 2005 (visiting professor), invited by Prof. W.L. Wendland.
- University of Toronto, Department of Mathematics, August 2006 (visiting professor), invited by Prof. I. Graham.
- University of Stuttgart, Institute for Applied Analysis and Numerical Simulation, December 2006 (visiting professor), invited by Prof. W.L. Wendland.
- University of Toronto, Department of Mathematics, April-May 2007 (visiting professor), invited by Prof. I. Graham.
- University of Stuttgart, Institute for Applied Analysis and Numerical Simulation, March 2008 (visiting professor), invited by Professor W.L. Wendland.
- University of Toronto, Department of Mathematics, 29 April- 27 May 2008 (research visit), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, 18 August-4 Septembrie 2008 (research visit), invited by Prof. I. Graham.
- Free University of Berlin, Department of Mathematics, September 2008 (research visit), invited by Prof. H. Begehr.
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, December 2008 (research visit), invited by Professor W.L. Wendland.
- Università degli Studi di Roma "Tor Vergata", Dipartimento di Matematica, March 16-20, 2009 (research visit; invited by Professor Filippo Bracci).
- University of Toronto, Department of Mathematics, May 1 – May 30 2009 (research visit), invited by Prof. I. Graham.
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, July 2009 (research visit), invited by Professor W.L. Wendland.
- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, August 2009 (research visit), invited by Professor W.L. Wendland.
- University of Toronto, Department of Mathematics, April 21 – May 20 2010 (research visit), invited by Prof. I. Graham.
- University of Padova, Department of Mathematics, June 19-25 2010 (research visit), invited by Prof. Massimo Lanza de Cristoforis.

- Institute for Applied Analysis and Numerical Simulation of the University of Stuttgart, July 1 – July 6, 2010 (research visit), invited by Professor W.L. Wendland.
- University of Toronto, Department of Mathematics, August 11-August 27, 2010 (research visit), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, May 8-June 5, 2011, Visiting Professor (research visit), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, April 23-May 14, 2012 (research visit), invited by Prof. I. Graham.
- Research visit to University of Padova, Department of Mathematics, June 18 - June 22 2012, invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, August 16 - August 29 2012, (research visit), invited by Prof. I. Graham.
- Research visit to the University of Padova, Department of Mathematics, November 8 - November 15 2012, invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, April 22 - May 13 2013, (research visit), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, August 9 - August 24 2013, (research visit), invited by Prof. I. Graham.
- University of Wuerzburg, Department of Mathematics, November 11-November 16, 2013 (research visit), invited by Prof. Oliver Roth.
- University of Toronto, Department of Mathematics, April 22 - May 13 2014 (research visit), invited by Prof. I. Graham.
- Research visit to the University of Padova, Department of Mathematics, June 23 – June 27 2014, invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, August 5 - August 21 2014 (research visit), invited by Prof. I. Graham.
- University of Toronto, Department of Mathematics, April 22 - May 14 2015 (research visit), invited by Prof. I. Graham.
- University of Stuttgart and University of Wuerzburg, May 28 – May 31 2015 (research visits), invited by Prof. W.L. Wendland and Prof. O. Roth.
- University of Padova, Department of Mathematics, June 21 – June 24 2015 (research visits), invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, August 17 – August 29 2015 (research visit), invited by Prof. I. Graham.
- University of Padova, Department of Mathematics, August 30 – September 2 2015 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Brunel University London, Department of Mathematics, October 20 – October 30 2015 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- Brunel University London, Department of Mathematics, February 2 – February 13 2016 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- University of Toronto, Department of Mathematics, April 22 - May 11 2016 (research visit), invited by Prof. I. Graham.
- Brunel University London, Department of Mathematics, June 14 – June 18 2016 (research visit), invited by Prof. Sergey E. Mikhailov (partially supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- University of Padova, Department of Mathematics, July 25 – August 4 2016 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, August 13 – August 26 2016 (research visit), invited by Prof. I. Graham.

- University of Padova, Department of Mathematics, November 27 2016 – December 3 2016 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Brunel University London, Department of Mathematics, February 6 – February 19 2017 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- Brunel University London, Department of Mathematics, March 20 – March 27 2017 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- University of Toronto, Department of Mathematics, April 25 – May 13 2017 (research visit), invited by Prof. I. Graham.
- University of Padova, Department of Mathematics, June 11 2017 – June 17 2017 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Toronto, Department of Mathematics, August 1 – August 15 2017 (research visit), invited by Prof. I. Graham.
- University of Padova, Department of Mathematics, September 11 2017 – September 17 2017 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Brunel University London, Department of Mathematics, February 4 – February 14 2018 (research visit), invited by Prof. Sergey E. Mikhailov (supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- University of Toronto, Department of Mathematics, April 27 – May 16 2018 (research visit), invited by Prof. I. Graham.
- University of Padova, Department of Mathematics, July 6 2018 – July 13 2018 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Brunel University London, Department of Mathematics, August 8 – August 18 2018 (research visit), invited by Prof. Sergey E. Mikhailov (partially supported by the Grant EP/M013545/1: "Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs" from the EPSRC, UK, Director Professor Sergey E. Mikhailov).
- Department of Mathematics, School of Science, Tokyo Institute of Technology, Japan, September 2 - 4, 2018 (research visits), invited by Prof. Tomoki Kawahira.
- University of Padova, Department of Mathematics, September 10 2018 – September 20 2018 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Brunel University London, Department of Mathematics, February 11 – February 21 2019 (research visit), invited by Prof. Sergey E. Mikhailov.
- University of Toronto, Department of Mathematics, May 7 – May 28 2019 (research visit).
- Brunel University London, Department of Mathematics, August 7 – August 23 2019 (research visit), invited by Prof. Sergey E. Mikhailov.
- Brunel University London, Department of Mathematics, February 2 – February 15 2020 (research visit), invited by Prof. Sergey E. Mikhailov.
- University of Padova, Department of Mathematics August 23 2021 – August 31 2021 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics April 26 2022 - May 03 2022 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics July 30 2022 - August 06 2022 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics February 12 2023 - February 19 2023 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics June 19 2023 - June 23 2023 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics February 14 2024 - February 21 2024 (research visit), invited by Prof. Massimo Lanza de Cristoforis.

- University of Padova, Department of Mathematics June 20 2024 - June 29 2024 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- Université de Lorraine – Metz, Institut Elie Cartan de Lorraine, September 22 2024 – October 18 2024 (research visit), invited by Prof. Victor Nistor.
- University of Padova, Department of Mathematics, February 14 2025 - February 21 2025 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics, July 3 2025 - July 11 2025 (research visit), invited by Prof. Massimo Lanza de Cristoforis.
- University of Padova, Department of Mathematics, February 9 2026 - February 16 2026 (research visit), invited by Prof. Massimo Lanza de Cristoforis.

### Conferințe și seminarii invitate internaționale

1. Boundary Elements – Theory and Applications BETA 2007 Hannover, May 22-24, **invited talk:** M. Kohr, W.L. Wendland, *Boundary integral equations for a three-dimensional Brinkman flow problem*
2. ICIAM 07 (6<sup>th</sup> International Congress of Industrial and Applied Mathematics), Zurich, 16 July- 20 July 2007; **Invited lecture: M. Kohr**, *Boundary- integral method for Stokes flow past porous bodies*
3. International Conference on Theory and Applications in Mathematics and Informatics (ICTAMI), Alba-Iulia, 30 August - 2 September, 2007; **Invited speaker: M. Kohr**, W. Wendland, *Boundary integral equations for a Brinkman flow problem*
4. M. Kohr, *Boundary value problems for the Stokes resolvent equations in bounded and exterior domains in  $\mathbf{R}^n$* , **seminar talk**; Institut für Angewandte Analysis und Numerische Simulation, Stuttgart University, Germany, November 03, 2005
5. M. Kohr, *Stokes flow past a porous body*, **seminar talk**; Institut für Angewandte Analysis und Numerische Simulation, Stuttgart University, Germany, 14 December 2006
6. M. Kohr, *Applications of potential theory to the study of some boundary value problems for Stokes and Brinkman Equations*, **seminar talk**; Department of Mathematics, University of Toronto, 20 May 2008
7. 2008 One and Several Complex Variables Conference, Lexington (Kentucky, USA), 8-11 May 2008; **Invited talk: M. Kohr**, G. Kohr, *Spirallikeness and asymptotic spirallikeness in several complex variables*
8. M. Kohr, *Applications of potential theory to the study of some boundary value problems for Stokes and Brinkman Equations*, **seminar talk**; Department of Mathematics, University of Toronto, 20 May 2008
9. M. Kohr, *Boundary integral method for Stokes flow past porous bodies*, **seminar talk**; Department of Mathematics, Free University of Berlin, October 1, 2008.
10. M. Kohr, *Applications of potential theory to transmission problems for Brinkman operators on Lipschitz domains in Riemannian manifolds*, **seminar talk**; Department of Mathematics, University of Toronto, May 2009
11. International Conference on Microfluidics and Complex Flows ECM 09, Tunis, November 5-6, 2009, **Invited speaker (plenary lecture): M. Kohr**, *Transmission problems for Stokes and Brinkman operators on arbitrary Lipschitz domains. Applications to porous media flow problems*
12. Mini-courses in Mathematical Analysis 2010, Padova, June 21-25; **Invited talk: M. Kohr**, *Boundary value problems for Brinkman operators on Lipschitz domains. Applications*
13. Workshop on Interfaces in Multiphase Flow, Stuttgart, July 1st - July 2nd, 2010; **Invited speaker (plenary lecture): M. Kohr**, *Boundary value problems for Brinkman operators on Lipschitz domains – Applications*
14. NTHCA10 New Trends in Harmonic and Complex Analysis, June 29 - July 3, 2010, Bremen, Germany; **Invited talk: M. Kohr**, *Boundary value problems for Brinkman operators on Lipschitz domains. Applications*
15. Mini-courses in Mathematical Analysis 2011, Padova, June 13-17, 2011; **Invited talk: M. Kohr**, *Potential analysis for some pseudodifferential matrix type operators in Lipschitz domains on Riemannian manifolds*
16. International Conference on Theory and Applications in Mathematics and Informatics (ICTAMI 2011), July 21-24, 2011, Alba-Iulia; **Invited parallel sections lecture: M. Kohr**, *Transmission problems for pseudodifferential Brinkman operators on Lipschitz domains in compact Riemannian manifolds*
17. International Symposium on Geometric Function Theory and Applications (GFTA 2011), Cluj-Napoca, September 4-8, 2011; **Invited speaker: M. Kohr**, *Potential analysis for elliptic boundary value problems in compact Riemannian manifolds*
18. International SimTech Symposium Partial Differential Equations: Theory, Applications, Simulations, University of Stuttgart, October 6 - 7, 2011; **Invited speaker: M. Kohr**, *Potential analysis for transmission problems associated to some pseudodifferential matrix operators in arbitrary Lipschitz domains*
19. Harmonic and Complex Analysis and its Applications, Puerto de la Cruz, Tenerife, Canary Islands, Spain,

- March 5 - 9, 2012; **Invited parallel section lecture: M. Kohr**, *Potential analysis for elliptic boundary value problems on Lipschitz domains in Riemannian manifolds*
20. Mini-courses in Mathematical Analysis 2012, Padova, June 18-12, 2012; **Invited talk: M. Kohr**, *Potential analysis for elliptic boundary value problems on Lipschitz domains*
  21. International Conference on Complex Analysis and Related Topics. The 13th Romanian-Finnish Seminar, June 26-30, 2012, Ploiești (Romania); **lecture: M. Kohr**, *Potential analysis for elliptic boundary value problems on Lipschitz domains*
  22. Tenth Advanced Course in Operator Theory and Complex Analysis, Sevilla, June 9th -13th, 2013; **talk: M. Kohr**, *Poisson problems for semilinear elliptic systems in Lipschitz domains*
  23. 9th International ISAAC Congress, Krakow, August 5-9, 2013; **lecture: M. Kohr**, *Poisson problems for semilinear Brinkman systems in Lipschitz domains*
  24. 5th International Conference on Application of Porous Media, Cluj-Napoca, August 25-28, 2013; **Plenary speaker M. Kohr**, *Poisson problems for semilinear elliptic systems on Lipschitz domains. Applications*
  25. 9<sup>th</sup> International Symposium on Geometric Function Theory and Applications, Işık University, Istanbul (Turkey), August 26-30, 2013; **lecture: M. Kohr**, *Poisson problems for semilinear elliptic systems in Lipschitz domains. Applications*
  26. Mini-courses in Mathematical Analysis 2014, Padova, June 23-27, 2014; **Invited talk: M. Kohr**, *Boundary value problems of Robin-transmission type for the nonlinear Darcy-Forchheimer-Brinkman and Navier-Stokes systems. Applications*
  27. 25th International Workshop of Operator Theory and its Applications (IWOTA 2014), Amsterdam, July 14-18, 2014; **Invited talk** in the Section *Partial differential operators and potential method* (organized by Roland Duduchava and Vladimir Rabinovich); **M. Kohr**, *Boundary value problems of Robin-transmission type for the nonlinear Darcy-Forchheimer-Brinkman and Navier-Stokes systems. Applications*
  28. 10<sup>th</sup> International Symposium on Geometric Function Theory and Applications, Oradea, August 25-28, 2014; contributed talk: **M. Kohr**, *Boundary value problems of Robin-transmission type for some nonlinear elliptic systems in Lipschitz domains*
  29. **Seminar talk**, Institute for Applied Analysis and Numerical Simulation, Stuttgart University, May 28, 2015; **M. Kohr**, *Transmission problems for the Navier-Stokes and Darcy-Forchheimer-Brinkman systems in weighted Sobolev spaces on exterior Lipschitz domains in  $\mathbf{R}^3$* ;
  30. Mini-courses in Mathematical Analysis 2015, Padova, June 22-26, 2015; **Invited talk: M. Kohr**, *Boundary value problems of transmission type for the Stokes and Darcy-Forchheimer-Brinkman systems in weighted Sobolev spaces on Lipschitz domains in  $\mathbf{R}^3$*
  31. The Eighth Congress of Romanian Mathematicians, June 26 - July 1, 2015, Iași, **Invited talk** in the section *Mechanics, Numerical Analysis, Mathematical Models in Science*; **M. Kohr**, *Boundary value problems of transmission type for the Navier-Stokes and Darcy-Forchheimer-Brinkman systems in weighted Sobolev spaces*
  32. Tenth UK Conference on Boundary Integral Methods (UKBIM 2015), 13-14 July 2015, Brighton, UK; **communication: M. Kohr**, *Transmission problems for the Stokes and Darcy-Forchheimer-Brinkman systems in weighted Sobolev spaces on Lipschitz domains*
  33. International Conference on Nonlinear Operators, Differential Equations and Applications (ICNODEA), July 14-17, 2015, Cluj-Napoca, Romania; **Invited speaker: M. Kohr**, *Transmission problems for the Navier-Stokes and Darcy-Forchheimer-Brinkman systems in weighted Sobolev spaces on Lipschitz domains*
  34. Mathematics of Finite Elements and Applications (MAFELAP 2016), Brunel University London, UK, June 14 - 17, 2016; **Invited speaker** in the mini-symposium *Boundary-Domain Integral Equations* organised by Sergey Mikhailov and David Natroshvili; **M. Kohr**, *Boundary value problems for a nonlinear Brinkman system with variable coefficients in Sobolev and Besov spaces on Lipschitz domains*
  35. International Conference on Complex Analysis and Related Topics. The 14th Romanian-Finnish Seminar, June 20 – 24, 2016, Bucharest, Romania; **M. Kohr**, *Boundary value problems for nonlinear Brinkman systems in Lipschitz domains* (contributed talk)
  36. The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, July 1-5, 2016; **Invited speaker** in the special session "Theory and applications of boundary-domain integral and pseudodifferential operators" organized by Prof. Sergey E. Mikhailov; **M. Kohr**, *Boundary value problems for nonlinear Brinkman and Navier-Stokes equations with variable coefficients in Lipschitz domains*
  37. 14th International Conference on Integral Methods in Science and Engineering (IMSE 2016), 25 - 29 July 2016, Padova, Italy; **M. Kohr**, *Boundary value problems for nonlinear Brinkman systems in Lipschitz domains* (conference talk); **Member in the Organizing Committee and in the Program Committee**



38. 13ème Colloque Franco-Roumain en Mathématiques Appliquées, 25-29 August, Iași, 2016; **Plenary speaker: M. Kohr**, *Boundary value problems for nonlinear Brinkman and Navier-Stokes equations with variable coefficients in Lipschitz domains*
39. International Conference on Complex Dynamics: Iterations, Foliations and Evolutions, Oslo (Norway), June 19 - 23, 2017; **G. Kohr**, joint lecture with **M. Kohr**
40. 11<sup>th</sup> Congress of International Society for Analysis, its Applications and Computations (ISAAC), Växjö, Sweden, August 14-18, 2017; **Invited talk** in the Session "Theory and Applications of Boundary-Domain Integral and Pseudodifferential Operators" organised by Sergey E. Mikhailov and David Natroshvili; **M. Kohr**, *Boundary-domain integral equations for variable coefficient Brinkman systems on Lipschitz domains*
41. XIXth International Conference on Analytic Functions and Related Topics (AF&RT'18), Rzeszów (Poland), 25–29 June 2018; **Invited speaker: M. Kohr**, *Boundary value problems for nonlinear Brinkman systems in Lipschitz domains*
42. 15th International Conference on Integral Methods in Science and Engineering (IMSE 2018), 16 - 20 July 2018, Brighton, UK; **Invited talk** in the mini-symposium "Boundary-Domain Integral Equations" organised by Sergey E. Mikhailov; **M. Kohr**, *Layer potentials and Poisson problems for the Stokes system with nonsmooth coefficients in Sobolev and Besov spaces*
43. International Workshop on Conformal Dynamics and Loewner Theory, 5-7 September 2018, Tohoku University, Sendai (Japan); **Plenary speaker: M. Kohr**, *Layer potentials and Poisson problems for elliptic systems in Lipschitz domains. Applications*
44. Conference on Analytic Low-Dimensional Dynamics: a celebration of Misha Lyubich's 60th birthday, May 27 - June 7, 2019, The Fields Institute for Research in Mathematical Sciences, Toronto (Canada); **invited**.
45. 9<sup>th</sup> Congress of Romanian Mathematicians, June 28-July 3, 2019, Galați, Romania; Co-organizer (together with **Victor Nistor**, France, and **Mihai Putinar**, USA) of the Special Session *Integral Operators and Layer Potentials*; **Invited speaker** in the same session: **M. Kohr**, *Layer potentials and boundary value problems for the Stokes system with  $L^\infty$ -coefficients*
46. 12th International ISAAC Congress, University of Aveiro, Aveiro, Portugal, July 29 – August 2, 2019; **Invited talk** in the Session *Theory and Applications of Boundary-Domain Integral and Pseudodifferential Operators* organised by Sergey E. Mikhailov and David Natroshvili; **M. Kohr**, *Layer potentials and exterior boundary problems in weighted Sobolev spaces for the Stokes system with  $L^\infty$  elliptic coefficient tensor*
47. International Workshop on Harmonic Analysis and Operator Theory, 26--29 August 2019, Istanbul; Contributed speaker, **M. Kohr**, *Layer potentials and boundary value problems for the Stokes system with  $L^\infty$  coefficients*
48. Online Mini-courses in Mathematical Analysis 2020, 14 – 17 September 2020, Padova
49. **Fields Program on Analytic Function Spaces: Mini-course and Workshop on Dirichlet Spaces, July 13-16, 2021, The Fields Institute (Toronto): G. Kohr, M. Kohr**, *Extremal results, approximation properties, and related problems associated with the Loewner differential equation in  $\mathbf{C}^n$* , Contributed talk.  
<http://www.fields.utoronto.ca/talks/Contributed-Talk-Extremal-results-approximation-properties-and-related-problems-associated>
50. 13th International ISAAC Congress, Ghent University, Belgium, August 2 – August 6, 2021; **Invited talk** in the Session *Complex Variables and Potential Theory*, organizers: Tahir Aliyev Azeroglu, Massimo Lanza de Cristoforis, Anatoly Golberg, Sergey Plaksa: **G. Kohr, M. Kohr**, *Extremal results and related problems associated with the Loewner differential equation in  $\mathbf{C}^n$* .
51. 16th International Symposium on Geometric Function Theory and Applications (GFTA 2021), **Dedicated to the memory of Professor Gabriela Kohr**, 15-18 October 2021, Sibiu, Romania; **Invited speaker**.
52. 19th Söllerhaus Workshop Fast Boundary Element Methods in Industrial Applications dedicated to the 85<sup>th</sup> birthday of Professor Wolfgang L. Wendland, 17-20.10.2021, Söllerhaus (Kleinwalsertal), Austria: **M. Kohr**, *Layer potentials for the anisotropic Stokes system and applications (Invited talk)*.
53. **Workshop dedicated to the memory of Professor Gabriela Kohr:**

- Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
 on the ZOOM platform, December 1-3, 2021, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania; **Main organizer.**
54. XVeme colloque Franco-Roumain de mathématiques appliquées, 29 August – 2 September 2022, Toulouse, France, **organizer** (together with **Victor Nistor**, Metz, and **Pierre Bousquet**, Toulouse, France) of the special session *Analyse et Applications*.
  55. Conference Aspect'22: Asymptotic Analysis & Spectral Theory, 26-30 September 2022, Oldenburg, Germany; **Invited speaker: M. Kohr**, *Boundary value problems and spectral theory on manifolds with boundary and cylindrical ends*.
  56. 14<sup>th</sup> Joint Conference on Mathematics and Computer Science Cluj-Napoca, November 24-27, 2022, **Plenary talk: G. Kohr, M. Kohr**, *Extremal results and related problems associated with the Loewner differential equation in  $C^n$* .
  57. **2<sup>nd</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
 on the ZOOM platform, December 1-3, 2022, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania; **Main organizer.**
  58. Mini-courses in Mathematical Analysis, Padova, June 19-23, 2023. **Invited talk: M. Kohr**, *The Stokes operator on manifolds with cylindrical ends*.
  59. The Tenth Congress of Romanian Mathematicians, June 30 - July 5, 2023, Piteşti, Romania. **Invited speaker** in the Section “**Ordinary and Partial Differential Equations, Controlled Differential Systems**”.  
**M. Kohr**, *The Stokes operator on manifolds with cylindrical ends*.
  60. Summer School in Geometric Analysis, Bruxelles, 28th August - 1st September, 2023. **Invited scientific talk: M. Kohr**, *On some elliptic operators on manifolds with cylindrical ends*. **Dedicated to the memory of Professor Gabriela Kohr**
  61. **3<sup>rd</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
 on the ZOOM platform, December 1-3, 2023, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania; **Main organizer.**
  62. Mini-courses in Mathematical Analysis, Padova, June 24-28, 2024. **Invited talk: M. Kohr**, *Boundary value problems for the Stokes system on manifolds with straight cylindrical ends*.
  63. The 29<sup>th</sup> International Conference in Operator Theory, Timişoara, July 1 - July 5, 2024. **Invited speaker. M. Kohr**, *On some elliptic operators on manifolds with cylindrical ends*.
  64. Conference "Perturbations, Asymptotics, and related Tools", Matera (Italy), September 3-6, 2024. **Plenary speaker. M. Kohr**, *On some elliptic operators on manifolds with cylindrical ends*.
  65. Conference "Asymptotic Analysis and Spectral Theory 2024", Metz (France), 23-27 September 2024. **Invited speaker M. Kohr**, *On some elliptic operators on manifolds with cylindrical ends*.
  66. Research seminar on Partial Differential Equations, Université de Lorraine, Institut Elie Cartan de Lorraine, Metz, October 4 2024: **M. Kohr**, *An introduction to the method of layer potential : applications to the Stokes system (part 1)*.
  67. Research seminar on Partial Differential Equations, Université de Lorraine, Institut Elie Cartan de Lorraine, Metz, October 11 2024: **M. Kohr**, *An introduction to the method of layer potentials: applications to the Stokes system (part 2)*.
  68. **4<sup>th</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr:**  
**Geometric Function Theory in Several Complex Variables and Complex Banach Spaces**  
[http://math.ubbcluj.ro/workshop\\_gk/](http://math.ubbcluj.ro/workshop_gk/)  
 on the ZOOM platform, November 29-December 1, 2024, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania; **Main organizer.**
  69. International Conference in Analysis, the 16<sup>th</sup> Romanian Finnish Seminar, June 24-27 2025, Alba Iulia. **Plenary talk: M. Kohr**, *Recent contributions to Geometric Function Theory in finite and infinite dimensional spaces: the legacy of Gabriela Kohr*
  70. Mini-courses in Mathematical Analysis, Padova, June 30-4 July, 2025. **Invited talk: M. Kohr**, *Invertibility of a modified Stokes operator and of its layer potential operators on domains with cylindrical ends*
  71. **5<sup>th</sup> Edition of the Workshop dedicated to the memory of Professor Gabriela Kohr:**

## Geometric Function Theory in Several Complex Variables and Complex Banach Spaces

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on the ZOOM platform, November 28-November 30, 2025, at the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania; **Main organizer.**

72. International Workshop on Harmonic Analysis and Operator Theory, June 9-12 2026, IMAR Bucharest.

**Invited speaker.**

## Alte informații

### Colaborări cu matematicieni din țară și străinătate

**W.L. Wendland**, Institut für Angewandte Analysis und Numerische Simulation, Universität Stuttgart, Germany

**G. Kohr**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**I. Graham**, Department of Mathematics, University of Toronto, Toronto, Canada

**H. Hamada**, Faculty of Science and Engineering Kyushu Sangyo University, Fukuoka, Japan

**V. Nistor**, Université de Lorraine - Metz, France

**M. Lanza de Cristoforis**, Dipartimento di Matematica "Tullio Levi-Civita", Università degli Studi di Padova, Italy

**S. E. Mikhailov**, Department of Mathematics, Brunel University London, UK

**N. Grosse**, Freiburg University, Germany

**D. Medková**, Mathematical Institute of the Academy of Sciences of the Czech Republic, Prague

**G.P. Raja Sekhar**, Department of Mathematics, Indian Institute of Technology, Kharagpur, India

**J.R. Blake**, School of Mathematics, University of Birmingham, Birmingham, UK

**R. Precup**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**C. Pintea**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**T. Groşan**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**P. Curt**, Facultatea de Științe Economice și Gestiunea Afacerilor, Universitatea Babeş-Bolyai, Cluj-Napoca

**P.T. Mocanu**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**I. Pop**, Facultatea de Matematică și Informatică, Universitatea Babeş-Bolyai, Cluj-Napoca

**M. Lupu**, Facultatea de Matematică și Informatică, Universitatea Transilvania, Braşov

### Membru în comisii de doctorat; comisii de concurs

1. Preşedinte comisie de doctorat a tezei d-nei Liana I. Cioban, Universitatea Babeş-Bolyai, Cluj-Napoca, 2012
2. Preşedinte comisie de doctorat a tezei d-nei Oana Ruxandra Tuns (Bode), Universitatea Babeş-Bolyai, Cluj-Napoca, 2012
3. Membru în comisia de doctorat a d-lui Viorel Adrian, Universitatea Babeş-Bolyai, Cluj-Napoca, 2011
4. Membru în comisia de doctorat a d-nei Petcu O. Olivia Ana (căs. Florea), Universitatea "Transilvania" din Braşov, 2010
5. Membru în comisia de doctorat a d-lui Ghiba Ionel-Dumitrele, Universitatea "Al. I. Cuza" din Iaşi, 2010
6. Membru în comisia de doctorat a d-nei Bercea (căs. Revnic) Cornelia, Universitatea Babeş-Bolyai, Cluj-Napoca, 2008
7. Membru în comisia de doctorat a d-nei Cîmpean Dalia Sabina, Universitatea Babeş-Bolyai, Cluj-Napoca, 2007
8. Membru în comisia de doctorat a d-lui Groşan Teodor Silviu, Universitatea Babeş-Bolyai, Cluj-Napoca, 2002
9. Membru în comisia de doctorat a d-nei Anghel Mihaela (căs. Jaradat), Univ. Babeş-Bolyai, Cluj-Napoca, 2002
10. Membru în comisia de evaluare a unor proiecte post-doc, în cadrul programului "Tineri cercetători de succes – dezvoltare profesională în context interdisciplinar şi internaţional", Universitatea Babeş-Bolyai, Cluj-Napoca 2014
11. Membru în comisia de concurs pentru un post de profesor la Universitatea Sapientia, Facultatea de Științe Economice și Umaniste din Miercurea Ciuc, ianuarie 2015
12. Membru în comisia de concurs pentru un post de conferențiar la Universitatea Transilvania Braşov, 09. 2016.
13. În anul 2017 am întocmit documentele necesare acordului de cooperare în cadrul programului Erasmus cu **Universitatea din Padova**. Această universitate de prestigiu din Italia figurează din anul 2017 în lista universităților partenere cu Universitatea Babeş-Bolyai.
14. Membru în comisia de concurs pentru un post de profesor la Facultatea de Matematică, Universitatea "Alexandru Ioan Cuza" din Iaşi, 28.01.2020
15. **Membru (examinator) în comisia de evaluare a tezei de doctorat:** H. Mohsen, *Uniform estimates for sign-changing transmission problems: Links with boundary triples and uncertainty quantification*, PhD advisers

Prof. Victor Nistor and Prof. Simon Labrunie, Institut Élie-Cartan de Lorraine, University Lorraine, France, 2 December, 2022.

16. **Membru în comisia de abilitare** a conf. dr. Maria Jivulescu, Universitatea Politehnica Timisoara, 23.01.2023, Universitatea Tehnică, Cluj-Napoca.
17. **Membru în comisia de abilitare** a conf. dr. Dalia-Sabina Cîmpean-Kelemen, Universitatea Tehnică, Cluj-Napoca, 26.05.2023, Universitatea Tehnică, Cluj-Napoca.
18. **Membru în comisia de evaluare a tezei de doctorat:** Szatmari (căs. Gavriș) Eszter, *Noi rezultate în teoria geometrică a funcțiilor de o variabilă complexă*, Universitatea Babeș-Bolyai, Cluj-Napoca, 8.09.2023.
19. **Membru în comisia de concurs pentru un post de profesor** la Facultatea de Matematică, Universitatea “Alexandru Ioan Cuza” din Iași, 31.01.2024.
20. **Membru în comisia de concurs/conteștiții pentru un post de lector** la Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai, Cluj-Napoca, 6.02.2024.
21. **Membru în comisia de concurs pentru un post de profesor** la Universitatea Tehnică Cluj-Napoca, 1.07.2024.
22. **Membru supleant în comisia de soluționare a conteștițiilor** privind teza de abilitare a conf.dr. Inoan Daniela Ioana, Universitatea Tehnică din Cluj-Napoca, 12.07.2024.
23. **Membru în comisia pentru susținerea tezei de doctorat:** Roberto Paoli, *Dynamics of resonances and chaos in space sciences* Universitatea “Alexandru Ioan Cuza” din Iași, 25.09.2024.
24. **Membru supleant în comisia de soluționare a conteștițiilor** privind teza de abilitare a conf.dr. Olivia Ana Florea, Universitatea “Transilvania” Brașov, 22.11.2024.
25. **Expert extern Comisia de specialitate MATEMATICĂ din cadrul CNCS** (din iulie 2025-)

#### **Coordonator sau membru al unor grupuri de cercetare**

1. **Coordonator** al grupului de cercetare de **Mecanică și Astronomie**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai (de la 1.10. 2012)
2. **Coordonator** al grupului de cercetare de **Analiză Complexă**, “**Prof. dr. Gabriela Kohr**” Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai (din 2021).
3. **Membru** al centrului de cercetare **de Analiză Aplicată**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai (Director Prof. Dr. Radu Precup)

<https://math.ubbcluj.ro/~mkohr/>

Data:  
11.02.2026

Semnătura:  
Prof. Dr. Mirela Kohr